Pennsylvania Cancer Incidence and Mortality

2009 Executive Summary

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DEPARTMENT OF HEALTH

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Pennsylvania
Cancer Incidence and Mortality
2009 Executive Summary

Bureau of Health Statistics and Research
Pennsylvania Cancer Registry
Harrisburg, Pennsylvania

INTRODUCTION

This is the sixteenth annual executive summary of cancer incidence and mortality statistics for the Commonwealth of Pennsylvania. This executive summary presents the annual number of invasive cancer cases and cancer deaths by age, sex, race, and primary site for Pennsylvania residents. In addition, the 2009 age-adjusted cancer incidence and death rates by sex, race, and primary site are calculated and shown. The percentage of cancer cases and deaths for the major primary sites by sex and race for 2009 are displayed on the Data Highlights pages.

Utilizing information collected by the PCR, the Department of Health can develop programs to better address Pennsylvania's cancer program needs. Registry data can be used to plan and evaluate cancer control measures in the areas of risk assessment, prevention, early detection, patient care, public and professional education, and clinical research. Additional detailed incidence data for Pennsylvania are available to government agencies, as well as educational, planning and research organizations, and concerned private citizens.

The Bureau of Health Statistics and Research welcomes comments and suggestions on the content and format of this report. Staff are available to answer questions regarding the report, including utilization and limitations of the data. Please address all comments, questions, requests for additional data, etc. to:

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Harrisburg, PA 17101-1914

Or call: 717-783-2548

Health Statistics Web Site: *www.health.state.pa.us/stats/*

Cancer incidence data were collected by the Pennsylvania Cancer Registry (PCR), located in the Bureau of Health Statistics and Research. The PCR is a full participant in the National Program of Cancer Registries (NPCR) of the Centers for Disease Control and Prevention (CDC).

If you use any of the data in this report, please include the following statement in any publication or release of the data:

These data were provided by the Bureau of Health Statistics and Research, Pennsylvania Departement of Health. The Department specifically disclaims responsibility for any analysis, interpretations, or conclusions.

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TECHNICAL NOTES

Incidence Data: The cancer incidence statistics in this report were collected by the Pennsylvania Cancer Registry. The PCR began collecting statewide cancer incidence data in 1985. Only cases diagnosed among Pennsylvania residents are included in this report. The PCR has agreements with the states of Delaware, Florida, Maryland, Michigan, New Jersey, New York, Ohio, and West Virginia for exchange of data on cases that are residents of other states.

The PCR collects cancer records from hospitals, pathology laboratories, radiation treatment centers, medical oncology centers, physician offices, nursing homes/hospices, autopsy reports, death certificates, and other hospital outpatient units/surgery centers across the commonwealth. Reporting sources are required to submit all cancer cases newly diagnosed and/or treated at their facility. If an individual had more than one primary tumor, each tumor is reported and counted. Thus, counts (cases) reported in this publication are based on the number of primary sites of cancer, rather than the number of people with the disease. Starting with 2001 data, cancer cases were coded according to the *International Classification of Diseases for Oncology Third Edition* (ICD-O-3).

Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program. Cancers are distinguished by whether they are invasive (that is, have infiltrated the tissue of the organ of origin) or whether they are in situ (that is, have not yet penetrated the basement membrane or extended beyond the epithelial tissue). Because of the difficulty in interpreting the language used by pathologists to describe the extent of invasion of bladder cancers, in situ bladder cancers are combined with invasive bladder cancers and included in the total for all invasive cancer sites combined. This practice is consistent with the reporting practices of the National Cancer Institute's SEER program. Therefore, only invasive (and in situ cases for urinary bladder) cancers are included in this report, unless otherwise noted.

Mortality Data: Pennsylvania's Certificate of Death is the source document for the Pennsylvania cancer mortality data contained in this publication. The death certificates are usually completed by hospital personnel, physicians, and funeral directors. Starting in 1999, the cause-of-death classification system was changed from ICD-9 to ICD-10. Therefore, cause-of-death statistics are not strictly comparable to cause-of-death statistics found in some older editions of this report.

Age-Adjusted Rates (Direct Method): Age-specific rates for a selected population are applied to a standard population (in this report, the 2000 U.S. standard million population) in order to calculate what rate would be expected if the selected population had the same age distribution as the standard. The total of these expected events, divided by the total of the standard population and multiplied by 100,000, yields the age-adjusted rate per 100,000 population. It is important to use the same standard population in the computation of each age-adjusted rate to allow comparability. Annual *Pennsylvania Cancer Incidence and Mortality* reports prior to 1999 used the 1970 standard million population in the calculation of all age-adjusted rates. Age-adjusted rates should never be compared with any other type of rate or be used as absolute measurements of vital events.

Age-adjusted rates are point estimates. The standard error (S.E.) for an age-adjusted rate defines the variability in this point estimate. With a standard error for a rate, one can compute a confidence interval (C.I.), i.e., a range for an observed rate which should include the actual or real rate 95 percent of the time. Age-adjusted rates for two different populations are considered to be significantly different when 95 percent confidence intervals for their age-adjusted rates do not overlap. The confidence intervals, as presented in this report, are based on a formula for ESTIMATING the standard error. The standard error can be ESTIMATED by dividing the rate by the square root of the number of cases (or deaths) upon which the rate was based. Rates based on less than 20 events are considered statistically unreliable and are not displayed.

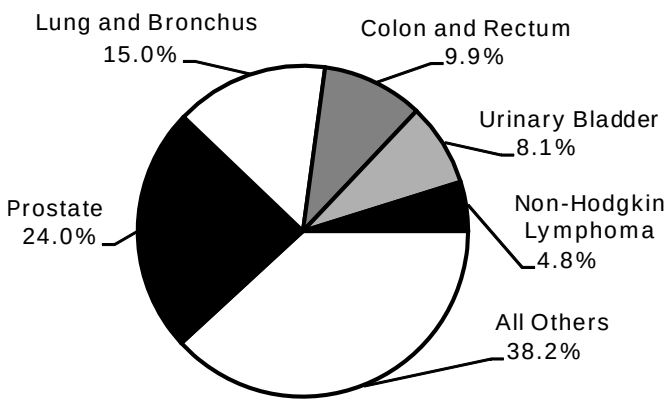
2009 CANCER INCIDENCE *(INVASIVE)*

Data Highlights

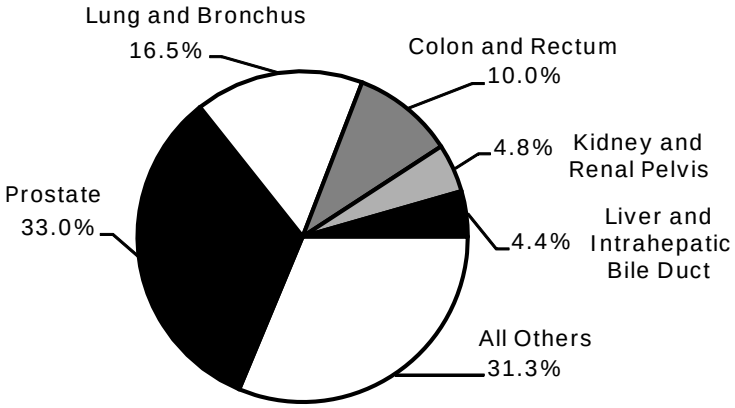
There were 75,781 cases of invasive (and in situ urinary bladder) cancers diagnosed among residents of the state and reported to the Pennsylvania Cancer Registry for 2009. With the exception of urinary bladder cancers, non-invasive (in situ) cases among residents and reported to the PCR for 2009 are not included in this report. Ten primary sites had more than 2,000 invasive cases: lung and bronchus (10,608); female breast (10,421); prostate (9,742); colon and rectum (7,316); urinary bladder, including in situ cases (3,845); non-Hodgkin lymphoma (3,302); melanoma of the skin (2,940); thyroid (2,686); corpus/uterus, NOS (2,595); and kidney/renal pelvis (2,492). Combined, these 10 primary sites represented 74 percent of the cases of invasive cancers diagnosed among residents in 2009.

Age-adjusted incidence rates by sex and race for 2009 showed that white males had their highest rates for prostate, lung and bronchus, colon and rectum, urinary bladder, and non-Hodgkin lymphoma cancers. Among black males, the highest rates occurred for the same top three sites as white males, while kidney/renal pelvis cancer had the fourth highest rate and liver/intrahepatic bile duct cancer had the fifth highest rate. The highest 2009 age-adjusted incidence rates for white females were for cancers of the breast, lung and bronchus, colon and rectum, corpus and uterus NOS, and thyroid. The top five sites with the highest rates among black females were the same as those that occurred for white females. The primary sites with the highest percentage distributions among the four sex/race groups are shown in the pie charts below.

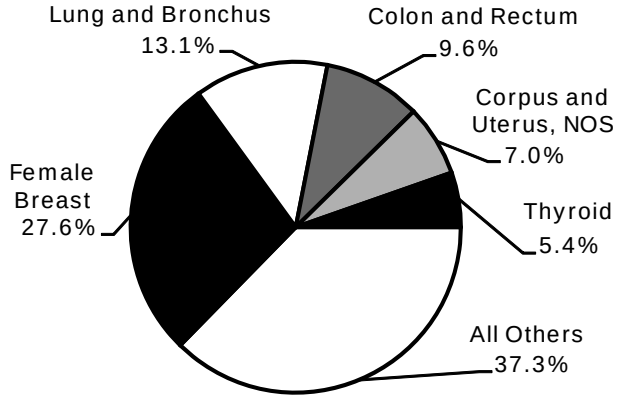
Cancer Cases by Sex and Race,
Percent by Major Primary Sites, Pennsylvania Residents, 2009



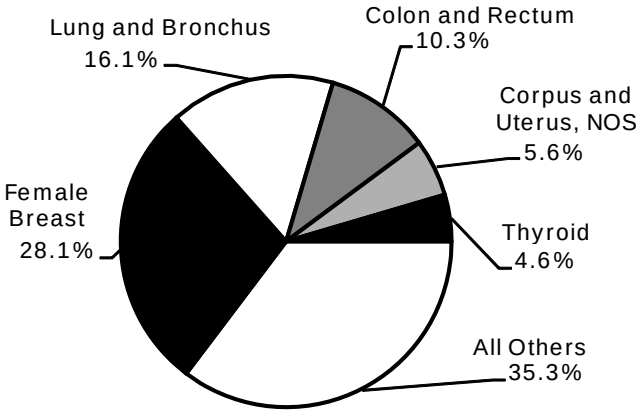
WHITE MALES



BLACK MALES



WHITE FEMALES



BLACK FEMALES

NOTE: Percents may not add to 100.0 due to rounding.

2009 CANCER INCIDENCE (Invasive)

Number of Cancer Cases by Sex, Race, and Primary Site
Pennsylvania Residents, 2009

		Males			Females		
Primary Site**	All Cases*	All Races*	White	Black	All Races*	White	Black
All Sites	**75,781**	**37,960**	**33,286**	**3,155**	**37,820**	**33,614**	**3,270**
Oral Cavity and Pharynx	**1,670**	**1,148**	**1,033**	**80**	**522**	**457**	**48**
Esophagus	**827**	**655**	**613**	**30**	**172**	**144**	**25**
Stomach	**1,030**	**638**	**552**	**71**	**392**	**323**	**55**
Colon and Rectum	**7,316**	**3,692**	**3,295**	**314**	**3,624**	**3,215**	**336**
Liver and Intrahepatic Bile Duct	**1,110**	**794**	**612**	**140**	**316**	**246**	**54**
Pancreas	**1,948**	**949**	**846**	**86**	**999**	**885**	**100**
Larynx	**571**	**423**	**363**	**51**	**148**	**119**	**26**
Lung and Bronchus	**10,608**	**5,614**	**4,996**	**522**	**4,994**	**4,405**	**527**
Melanoma of the Skin	**2,940**	**1,656**	**1,513**	**7**	**1,284**	**1,170**	**5**
Female Breast	**10,421**	**-**	**-**	**-**	**10,421**	**9,292**	**920**
Cervix Uteri	**559**	**-**	**-**	**-**	**559**	**459**	**75**
Corpus and Uterus, NOS	**2,595**	**-**	**-**	**-**	**2,595**	**2,351**	**183**
Ovary	**1,076**	**-**	**-**	**-**	**1,076**	**993**	**62**
Prostate	**9,742**	**9,742**	**7,979**	**1,042**	**-**	**-**	**-**
Testis	**381**	**380**	**362**	**11**	**-**	**-**	**-**
Urinary Bladder	**3,845**	**2,867**	**2,706**	**106**	**978**	**898**	**62**
Kidney/Renal Pelvis	**2,492**	**1,500**	**1,320**	**150**	**992**	**857**	**109**
Brain and Other Nervous System	**976**	**530**	**485**	**27**	**446**	**415**	**26**
Thyroid	**2,686**	**652**	**607**	**26**	**2,034**	**1,801**	**149**
Non-Hodgkin Lymphoma	**3,302**	**1,773**	**1,607**	**108**	**1,529**	**1,383**	**95**
Hodgkin Lymphoma	**446**	**236**	**206**	**23**	**210**	**179**	**26**
Myeloma	**948**	**506**	**420**	**67**	**442**	**349**	**86**
Leukemia	**1,937**	**1,107**	**994**	**56**	**830**	**738**	**55**
All Other Sites	**6,355**	**3,098**	**2,777**	**238**	**3,257**	**2,935**	**246**

* Includes any unknowns. ** With the exception of urinary bladder cancers, all in situ cancer cases are excluded
Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

2009 CANCER INCIDENCE (Invasive)

Annual Age-Adjusted Cancer Incidence Rates and 95% Confidence Intervals
by Sex, Race, and Primary Site, Pennsylvania Residents, 2009

		Males			Females		
	All Cases*	All Races*	White	Black	All Races*	White	Black
Primary Site**	Rate (CI)	Rate (CI)	Rate (CI)	Rate (CI)	Rate (CI)	Rate (CI)	Rate (CI)
All Sites	**503.9** (500.3-507.5)	**567.8** (562.1-573.5)	**548.8** (542.9-554.7)	**671.9** (648.5-695.3)	**462.2** (457.5-466.9)	**459.0** (454.1-463.9)	**482.9** (466.3-499.5)
Oral Cavity and Pharynx	**11.1** (10.6-11.6)	**16.8** (15.8-17.8)	**16.8** (15.8-17.8)	**15.8** (12.3-19.3)	**6.3** (5.8-6.8)	**6.2** (5.6-6.8)	**7.1** (5.1-9.1)
Esophagus	**5.4** (5.0-5.8)	**9.7** (9.0-10.4)	**9.9** (9.1-10.7)	**6.6** (4.2-9.0)	**2.0** (1.7-2.3)	**1.8** (1.5-2.1)	**3.7** (2.2-5.2)
Stomach	**6.7** (6.3-7.1)	**9.7** (8.9-10.5)	**9.2** (8.4-10.0)	**16.7** (12.8-20.6)	**4.4** (4.0-4.8)	**4.0** (3.6-4.4)	**8.1** (6.0-10.2)
Colon and Rectum	**47.6** (46.5-48.7)	**56.0** (54.2-57.8)	**54.9** (53.0-56.8)	**67.8** (60.3-75.3)	**41.0** (39.7-42.3)	**40.2** (38.8-41.6)	**49.7** (44.4-55.0)
Liver and Intrahepatic Bile Duct	**7.2** (6.8-7.6)	**11.3** (10.5-12.1)	**9.7** (8.9-10.5)	**27.3** (22.8-31.8)	**3.7** (3.3-4.1)	**3.2** (2.8-3.6)	**7.8** (5.7-9.9)
Pancreas	**12.5** (11.9-13.1)	**14.3** (13.4-15.2)	**13.9** (13.0-14.8)	**19.0** (15.0-23.0)	**11.1** (10.4-11.8)	**10.8** (10.1-11.5)	**14.6** (11.7-17.5)
Larynx	**3.7** (3.4-4.0)	**6.2** (5.6-6.8)	**5.8** (5.2-6.4)	**11.7** (8.5-14.9)	**1.7** (1.4-2.0)	**1.6** (1.3-1.9)	**3.8** (2.3-5.3)
Lung and Bronchus	**69.1** (67.8-70.4)	**84.9** (82.7-87.1)	**82.6** (80.3-84.9)	**118.3** (108.2-128.4)	**58.0** (56.4-59.6)	**56.6** (54.9-58.3)	**77.8** (71.2-84.4)
Melanoma of Skin	**20.3** (19.6-21.0)	**25.1** (23.9-26.3)	**25.4** (24.1-26.7)	**ND**	**17.0** (16.1-17.9)	**17.7** (16.7-18.7)	**ND**
Female Breast	–	–	–	–	**131.0** (128.5-133.5)	**130.7** (128.0-133.4)	**136.5** (127.7-145.3)
Cervix Uteri	–	–	–	–	**8.2** (7.5-8.9)	**7.9** (7.2-8.6)	**11.4** (8.8-14.0)
Corpus/Uterus, NOS	–	–	–	–	**31.6** (30.4-32.8)	**32.0** (30.7-33.3)	**27.3** (23.3-31.3)
Ovary	–	–	–	–	**13.3** (12.5-14.1)	**13.7** (12.8-14.6)	**9.0** (6.8-11.2)
Prostate	–	**139.6** (136.8-142.4)	**125.4** (122.6-128.2)	**216.8** (203.6-230.0)	–	–	–
Testis	–	**6.4** (5.8-7.0)	**7.2** (6.5-7.9)	**ND**	–	–	–
Urinary Bladder	**24.6** (23.8-25.4)	**43.7** (42.1-45.3)	**45.0** (43.3-46.7)	**25.3** (20.5-30.1)	**10.9** (10.2-11.6)	**11.1** (10.4-11.8)	**8.9** (6.7-11.1)
Kidney/Renal Pelvis	**16.8** (16.1-17.5)	**22.4** (21.3-23.5)	**21.8** (20.6-23.0)	**32.3** (27.1-37.5)	**12.2** (11.4-13.0)	**11.8** (11.0-12.6)	**16.2** (13.2-19.2)
Brain and Other Nervous System	**6.9** (6.5-7.3)	**8.1** (7.4-8.8)	**8.3** (7.6-9.0)	**4.4** (2.7-6.1)	**5.8** (5.3-6.3)	**6.1** (5.5-6.7)	**3.7** (2.3-5.1)
Thyroid	**20.2** (19.4-21.0)	**10.0** (9.2-10.8)	**10.5** (9.7-11.3)	**5.4** (3.3-7.5)	**30.1** (28.8-31.4)	**30.9** (29.5-32.3)	**21.9** (18.4-25.4)
Non-Hodgkin Lymphoma	**22.0** (21.2-22.8)	**27.2** (25.9-28.5)	**27.2** (25.9-28.5)	**20.1** (16.3-23.9)	**18.0** (17.1-18.9)	**18.0** (17.1-18.9)	**14.2** (11.3-17.1)
Hodgkin Lymphoma	**3.5** (3.2-3.8)	**3.9** (3.4-4.4)	**3.8** (3.3-4.3)	**3.7** (2.2-5.2)	**3.2** (2.8-3.6)	**3.2** (2.7-3.7)	**3.7** (2.3-5.1)
Myeloma	**6.1** (5.7-6.5)	**7.6** (6.9-8.3)	**6.9** (6.2-7.6)	**14.8** (11.3-18.3)	**5.1** (4.6-5.6)	**4.4** (3.9-4.9)	**12.6** (9.9-15.3)
Leukemia	**13.1** (12.5-13.7)	**17.1** (16.1-18.1)	**17.1** (16.0-18.2)	**11.5** (8.5-14.5)	**9.9** (9.2-10.6)	**9.9** (9.2-10.6)	**7.7** (5.7-9.7)

* Includes any unknowns. ** With the exception of urinary bladder, all in situ cancer cases are excluded.

NOTES: Age-adjusted rates are per 100,000 and are computed by the direct method using the 2000 U.S. standard million population. Rates based on less than 20 events are statistically unreliable and are not displayed (ND). CI = 95% confidence interval based on a formula for estimating the standard error or SE (see Technical Notes) Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

2009 CANCER INCIDENCE (INVASIVE)

Number of Cancer Cases by Age and Primary Site
Pennsylvania Residents, 2009

Primary Site**	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**75,781**	**354**	**563**	**1,306**	**3,434**	**3,981**	**6,103**	**7,896**	**9,347**	**10,082**	**9,197**	**8,822**	**7,822**	**6,869**
Oral Cavity and Pharynx	**1,670**	**5**	**11**	**22**	**87**	**124**	**193**	**234**	**224**	**199**	**168**	**163**	**119**	**119**
Esophagus	**827**	**0**	**1**	**2**	**15**	**38**	**51**	**105**	**116**	**133**	**126**	**98**	**72**	**70**
Stomach	**1,030**	**1**	**2**	**7**	**31**	**43**	**73**	**69**	**111**	**150**	**124**	**138**	**137**	**144**
Colon and Rectum	**7,316**	**0**	**2**	**55**	**224**	**323**	**513**	**601**	**724**	**902**	**931**	**985**	**1,010**	**1,046**
Liver and Intrahepatic Bile Duct	**1,110**	**2**	**6**	**5**	**17**	**52**	**144**	**203**	**159**	**126**	**101**	**127**	**104**	**64**
Pancreas	**1,948**	**0**	**2**	**2**	**35**	**55**	**111**	**167**	**211**	**260**	**262**	**297**	**281**	**265**
Larynx	**571**	**0**	**1**	**0**	**7**	**25**	**62**	**84**	**77**	**100**	**70**	**64**	**44**	**37**
Lung and Bronchus	**10,608**	**1**	**6**	**17**	**143**	**317**	**633**	**872**	**1,308**	**1,690**	**1,662**	**1,596**	**1,389**	**974**
Melanoma of Skin	**2,940**	**4**	**42**	**129**	**252**	**251**	**290**	**296**	**332**	**304**	**271**	**310**	**221**	**238**
Female Breast	**10,421**	**0**	**8**	**152**	**817**	**1,005**	**1,065**	**1,158**	**1,257**	**1,210**	**1,130**	**978**	**892**	**748**
Cervix Uteri	**559**	**0**	**8**	**67**	**122**	**68**	**71**	**55**	**48**	**41**	**27**	**19**	**16**	**17**
Corpus/Uterus, NOS	**2,595**	**0**	**1**	**31**	**110**	**154**	**266**	**411**	**441**	**395**	**270**	**213**	**168**	**135**
Ovary	**1,076**	**7**	**16**	**23**	**58**	**96**	**93**	**132**	**113**	**100**	**110**	**114**	**110**	**104**
Prostate	**9,742**	**2**	**0**	**2**	**59**	**243**	**824**	**1,460**	**1,830**	**1,960**	**1,407**	**1,008**	**574**	**373**
Testis	**381**	**2**	**68**	**115**	**104**	**27**	**33**	**15**	**3**	**3**	**3**	**4**	**1**	**3**
Urinary Bladder	**3,845**	**0**	**3**	**15**	**58**	**73**	**178**	**291**	**456**	**493**	**514**	**602**	**596**	**566**
Kidney/Renal Pelvis	**2,492**	**20**	**9**	**45**	**137**	**155**	**237**	**299**	**330**	**329**	**313**	**276**	**205**	**137**
Brain and Other Nervous System	**976**	**72**	**40**	**44**	**81**	**58**	**82**	**110**	**115**	**87**	**72**	**71**	**78**	**66**
Thyroid	**2,686**	**9**	**102**	**287**	**493**	**320**	**340**	**297**	**256**	**205**	**156**	**111**	**81**	**29**
Non-Hodgkin Lymphoma	**3,302**	**17**	**41**	**61**	**166**	**161**	**241**	**297**	**329**	**402**	**392**	**428**	**406**	**360**
Hodgkin Lymphoma	**446**	**16**	**83**	**78**	**74**	**32**	**21**	**27**	**12**	**24**	**25**	**24**	**19**	**11**
Myeloma	**948**	**0**	**0**	**2**	**21**	**32**	**55**	**104**	**126**	**122**	**117**	**140**	**135**	**94**
Leukemia	**1,937**	**101**	**50**	**48**	**87**	**85**	**127**	**132**	**189**	**203**	**202**	**228**	**231**	**253**
All Other Sites	**6,355**	**95**	**61**	**97**	**236**	**244**	**400**	**477**	**580**	**644**	**744**	**828**	**933**	**1,016**

* Includes any unknowns. ** With the exception of urinary bladder, all in situ cancer cases are excluded
Notes: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

2009 CANCER INCIDENCE (INVASIVE)

Number of Cancer Cases by Age and Primary Site, Males
Pennsylvania Residents, 2009

Primary Site**	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**37,960**	**175**	**276**	**492**	**1,177**	**1,482**	**2,968**	**4,236**	**5,174**	**5,716**	**4,987**	**4,670**	**3,756**	**2,847**
Oral Cavity and Pharynx	**1,148**	**4**	**7**	**12**	**56**	**93**	**147**	**184**	**161**	**151**	**108**	**104**	**66**	**53**
Esophagus	**655**	**0**	**1**	**2**	**10**	**27**	**41**	**85**	**94**	**117**	**94**	**83**	**59**	**42**
Stomach	**638**	**0**	**2**	**3**	**19**	**24**	**49**	**50**	**74**	**102**	**79**	**94**	**76**	**66**
Colon and Rectum	**3,692**	**0**	**1**	**33**	**119**	**173**	**314**	**336**	**403**	**495**	**498**	**478**	**451**	**391**
Liver and Intrahepatic Bile Duct	**794**	**1**	**3**	**2**	**11**	**43**	**109**	**173**	**126**	**87**	**70**	**71**	**61**	**37**
Pancreas	**949**	**0**	**1**	**2**	**23**	**33**	**64**	**93**	**127**	**145**	**138**	**138**	**100**	**85**
Larynx	**423**	**0**	**0**	**0**	**7**	**15**	**46**	**60**	**59**	**71**	**53**	**54**	**33**	**25**
Lung and Bronchus	**5,614**	**1**	**3**	**5**	**64**	**145**	**316**	**469**	**702**	**950**	**896**	**861**	**740**	**462**
Melanoma of Skin	**1,656**	**2**	**11**	**48**	**97**	**121**	**156**	**177**	**197**	**196**	**176**	**212**	**134**	**129**
Prostate	**9,742**	**2**	**0**	**2**	**59**	**243**	**824**	**1,460**	**1,830**	**1,960**	**1,407**	**1,008**	**574**	**373**
Testis	**380**	**2**	**68**	**115**	**103**	**27**	**33**	**15**	**3**	**3**	**3**	**4**	**1**	**3**
Urinary Bladder	**2,867**	**0**	**2**	**9**	**42**	**43**	**126**	**230**	**345**	**373**	**393**	**468**	**441**	**395**
Kidney/Renal Pelvis	**1,500**	**10**	**5**	**27**	**80**	**93**	**150**	**194**	**205**	**215**	**188**	**164**	**112**	**57**
Brain and Other Nervous System	**530**	**33**	**28**	**25**	**51**	**30**	**45**	**64**	**69**	**53**	**41**	**38**	**31**	**22**
Thyroid	**652**	**1**	**16**	**46**	**91**	**69**	**87**	**65**	**87**	**65**	**47**	**41**	**31**	**6**
Non-Hodgkin Lymphoma	**1,773**	**9**	**23**	**36**	**107**	**94**	**140**	**174**	**185**	**205**	**224**	**225**	**203**	**147**
Hodgkin Lymphoma	**236**	**6**	**35**	**42**	**43**	**24**	**8**	**16**	**10**	**15**	**17**	**9**	**7**	**4**
Myeloma	**506**	**0**	**0**	**1**	**12**	**19**	**33**	**50**	**73**	**69**	**57**	**78**	**68**	**46**
Leukemia	**1,107**	**55**	**31**	**30**	**59**	**52**	**69**	**81**	**125**	**125**	**130**	**129**	**113**	**107**
All Other Sites	**3,098**	**49**	**39**	**52**	**124**	**114**	**211**	**260**	**299**	**319**	**368**	**411**	**455**	**397**

* Includes any unknowns. ** With the exception of urinary bladder, all in situ cancer cases are excluded.

Notes: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER INCIDENCE (INVASIVE)

Number of Cancer Cases by Age and Primary Site, Females
Pennsylvania Residents, 2009

Primary Site**	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**37,820**	**179**	**287**	**814**	**2,256**	**2,499**	**3,135**	**3,660**	**4,173**	**4,366**	**4,210**	**4,152**	**4,066**	**4,022**
Oral Cavity and Pharynx	**522**	**1**	**4**	**10**	**31**	**31**	**46**	**50**	**63**	**48**	**60**	**59**	**53**	**66**
Esophagus	**172**	**0**	**0**	**0**	**5**	**11**	**10**	**20**	**22**	**16**	**32**	**15**	**13**	**28**
Stomach	**392**	**1**	**0**	**4**	**12**	**19**	**24**	**19**	**37**	**48**	**45**	**44**	**61**	**78**
Colon and Rectum	**3,624**	**0**	**1**	**22**	**105**	**150**	**199**	**265**	**321**	**407**	**433**	**507**	**559**	**655**
Liver and Intrahepatic Bile Duct	**316**	**1**	**3**	**3**	**6**	**9**	**35**	**30**	**33**	**39**	**31**	**56**	**43**	**27**
Pancreas	**999**	**0**	**1**	**0**	**12**	**22**	**47**	**74**	**84**	**115**	**124**	**159**	**181**	**180**
Larynx	**148**	**0**	**1**	**0**	**0**	**10**	**16**	**24**	**18**	**29**	**17**	**10**	**11**	**12**
Lung and Bronchus	**4,994**	**0**	**3**	**12**	**79**	**172**	**317**	**403**	**606**	**740**	**766**	**735**	**649**	**512**
Melanoma of Skin	**1,284**	**2**	**31**	**81**	**155**	**130**	**134**	**119**	**135**	**108**	**95**	**98**	**87**	**109**
Female Breast	**10,421**	**0**	**8**	**152**	**817**	**1,005**	**1,065**	**1,158**	**1,257**	**1,210**	**1,130**	**978**	**892**	**748**
Cervix Uteri	**559**	**0**	**8**	**67**	**122**	**68**	**71**	**55**	**48**	**41**	**27**	**19**	**16**	**17**
Corpus/Uterus, NOS	**2,595**	**0**	**1**	**31**	**110**	**154**	**266**	**411**	**441**	**395**	**270**	**213**	**168**	**135**
Ovary	**1,076**	**7**	**16**	**23**	**58**	**96**	**93**	**132**	**113**	**100**	**110**	**114**	**110**	**104**
Urinary Bladder	**978**	**0**	**1**	**6**	**16**	**30**	**52**	**61**	**111**	**120**	**121**	**134**	**155**	**171**
Kidney/Renal Pelvis	**992**	**10**	**4**	**18**	**57**	**62**	**87**	**105**	**125**	**114**	**125**	**112**	**93**	**80**
Brain and Other Nervous System	**446**	**39**	**12**	**19**	**30**	**28**	**37**	**46**	**46**	**34**	**31**	**33**	**47**	**44**
Thyroid	**2,034**	**8**	**86**	**241**	**402**	**251**	**253**	**232**	**169**	**140**	**109**	**70**	**50**	**23**
Non-Hodgkin Lymphoma	**1,529**	**8**	**18**	**25**	**59**	**67**	**101**	**123**	**144**	**197**	**168**	**203**	**203**	**213**
Hodgkin Lymphoma	**210**	**10**	**48**	**36**	**31**	**8**	**13**	**11**	**2**	**9**	**8**	**15**	**12**	**7**
Myeloma	**442**	**0**	**0**	**1**	**9**	**13**	**22**	**54**	**53**	**53**	**60**	**62**	**67**	**48**
Leukemia	**830**	**46**	**19**	**18**	**28**	**33**	**58**	**51**	**64**	**78**	**72**	**99**	**118**	**146**
All Other Sites	**3,257**	**46**	**22**	**45**	**112**	**130**	**189**	**217**	**281**	**325**	**376**	**417**	**478**	**619**

* Includes any unknowns. ** With the exception of urinary bladder, all in situ cancer cases are excluded.

Notes: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER INCIDENCE (INVASIVE)

Number of Cancer Cases by Age and Primary Site, White Males
Pennsylvania Residents, 2009

Primary Site**	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**33,286**	**135**	**234**	**437**	**976**	**1,264**	**2,489**	**3,550**	**4,456**	**4,997**	**4,417**	**4,195**	**3,486**	**2,649**
Oral Cavity and Pharynx	**1,033**	**4**	**2**	**7**	**49**	**82**	**135**	**164**	**136**	**141**	**102**	**95**	**65**	**51**
Esophagus	**613**	**0**	**1**	**2**	**8**	**24**	**38**	**78**	**92**	**103**	**90**	**81**	**56**	**40**
Stomach	**552**	**0**	**2**	**3**	**15**	**22**	**42**	**42**	**64**	**86**	**68**	**79**	**69**	**60**
Colon and Rectum	**3,295**	**0**	**0**	**27**	**95**	**149**	**264**	**286**	**344**	**448**	**457**	**433**	**421**	**371**
Liver and Intrahepatic Bile Duct	**612**	**1**	**2**	**1**	**8**	**30**	**76**	**125**	**91**	**64**	**59**	**63**	**57**	**35**
Pancreas	**846**	**0**	**1**	**2**	**17**	**30**	**55**	**80**	**108**	**129**	**126**	**123**	**97**	**78**
Larynx	**363**	**0**	**0**	**0**	**7**	**13**	**37**	**53**	**52**	**60**	**42**	**49**	**27**	**23**
Lung and Bronchus	**4,996**	**1**	**1**	**4**	**54**	**119**	**266**	**402**	**614**	**839**	**797**	**783**	**690**	**426**
Melanoma of Skin	**1,513**	**1**	**10**	**46**	**79**	**110**	**135**	**158**	**180**	**190**	**163**	**195**	**124**	**122**
Prostate	**7,979**	**2**	**0**	**2**	**36**	**194**	**652**	**1,155**	**1,499**	**1,617**	**1,163**	**843**	**493**	**323**
Testis	**362**	**2**	**63**	**110**	**98**	**25**	**32**	**15**	**3**	**3**	**3**	**4**	**1**	**3**
Urinary Bladder	**2,706**	**0**	**2**	**8**	**39**	**39**	**117**	**213**	**325**	**348**	**370**	**444**	**427**	**374**
Kidney/Renal Pelvis	**1,320**	**7**	**4**	**25**	**67**	**84**	**126**	**166**	**178**	**195**	**165**	**148**	**103**	**52**
Brain and Other Nervous System	**485**	**25**	**23**	**20**	**46**	**27**	**43**	**55**	**66**	**50**	**40**	**38**	**30**	**22**
Thyroid	**607**	**1**	**15**	**44**	**81**	**65**	**84**	**58**	**82**	**63**	**42**	**37**	**29**	**6**
Non-Hodgkin Lymphoma	**1,607**	**5**	**18**	**31**	**88**	**76**	**111**	**150**	**173**	**189**	**214**	**215**	**195**	**141**
Hodgkin Lymphoma	**206**	**5**	**29**	**36**	**33**	**20**	**7**	**15**	**10**	**15**	**17**	**9**	**6**	**4**
Myeloma	**420**	**0**	**0**	**1**	**6**	**16**	**28**	**37**	**61**	**56**	**49**	**64**	**59**	**43**
Leukemia	**994**	**42**	**26**	**26**	**54**	**45**	**58**	**71**	**114**	**114**	**120**	**118**	**103**	**103**
All Other Sites	**2,777**	**39**	**35**	**42**	**96**	**94**	**183**	**227**	**264**	**287**	**330**	**374**	**434**	**372**

* Includes any unknowns. ** With the exception of urinary bladder, all in situ cancer cases are excluded.

Notes: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER INCIDENCE (INVASIVE)

Number of Cancer Cases by Age and Primary Site, Black Males
Pennsylvania Residents, 2009

Primary Site**	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**3,155**	**30**	**25**	**34**	**126**	**157**	**354**	**498**	**485**	**476**	**361**	**291**	**176**	**142**
Oral Cavity and Pharynx	**80**	**0**	**3**	**1**	**3**	**9**	**9**	**11**	**19**	**10**	**6**	**6**	**1**	**2**
Esophagus	**30**	**0**	**0**	**0**	**0**	**2**	**3**	**5**	**2**	**10**	**4**	**1**	**2**	**1**
Stomach	**71**	**0**	**0**	**0**	**4**	**1**	**7**	**6**	**7**	**13**	**10**	**11**	**7**	**5**
Colon and Rectum	**314**	**0**	**1**	**6**	**15**	**21**	**35**	**43**	**52**	**37**	**27**	**37**	**27**	**13**
Liver and Intrahepatic Bile Duct	**140**	**0**	**0**	**1**	**3**	**9**	**22**	**41**	**24**	**19**	**10**	**7**	**2**	**2**
Pancreas	**86**	**0**	**0**	**0**	**4**	**3**	**8**	**11**	**17**	**11**	**10**	**14**	**2**	**6**
Larynx	**51**	**0**	**0**	**0**	**0**	**2**	**9**	**2**	**6**	**11**	**10**	**4**	**6**	**1**
Lung and Bronchus	**522**	**0**	**0**	**0**	**8**	**23**	**48**	**65**	**73**	**93**	**82**	**65**	**35**	**30**
Melanoma of Skin	**7**	**1**	**1**	**0**	**2**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**1**	**0**
Prostate	**1,042**	**0**	**0**	**0**	**20**	**34**	**124**	**215**	**201**	**189**	**119**	**64**	**39**	**37**
Testis	**11**	**0**	**4**	**2**	**4**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Urinary Bladder	**106**	**0**	**0**	**1**	**2**	**2**	**6**	**10**	**9**	**19**	**16**	**16**	**11**	**14**
Kidney/Renal Pelvis	**150**	**3**	**1**	**0**	**10**	**8**	**22**	**21**	**18**	**17**	**21**	**16**	**8**	**5**
Brain and Other Nervous System	**27**	**5**	**2**	**2**	**3**	**2**	**1**	**7**	**3**	**1**	**0**	**0**	**1**	**0**
Thyroid	**26**	**0**	**0**	**1**	**2**	**3**	**2**	**7**	**2**	**2**	**2**	**3**	**2**	**0**
Non-Hodgkin Lymphoma	**108**	**4**	**5**	**4**	**11**	**13**	**23**	**17**	**9**	**7**	**3**	**6**	**2**	**4**
Hodgkin Lymphoma	**23**	**1**	**5**	**5**	**7**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**
Myeloma	**67**	**0**	**0**	**0**	**5**	**2**	**5**	**12**	**12**	**7**	**6**	**11**	**5**	**2**
Leukemia	**56**	**8**	**1**	**2**	**2**	**4**	**8**	**5**	**4**	**4**	**5**	**4**	**8**	**1**
All Other Sites	**238**	**8**	**2**	**9**	**21**	**16**	**20**	**20**	**25**	**26**	**30**	**26**	**16**	**19**

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Number of Cancer Cases by Age and Primary Site, White Females
Pennsylvania Residents, 2009

Primary Site**	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**33,614**	**141**	**237**	**676**	**1,937**	**2,141**	**2,708**	**3,198**	**3,674**	**3,853**	**3,775**	**3,775**	**3,753**	**3,745**
Oral Cavity and Pharynx	**457**	**1**	**4**	**8**	**29**	**27**	**40**	**45**	**50**	**36**	**52**	**54**	**47**	**64**
Esophagus	**144**	**0**	**0**	**0**	**5**	**10**	**7**	**15**	**16**	**13**	**24**	**14**	**12**	**28**
Stomach	**323**	**1**	**0**	**4**	**9**	**13**	**19**	**17**	**31**	**36**	**36**	**36**	**54**	**67**
Colon and Rectum	**3,215**	**0**	**1**	**19**	**91**	**116**	**168**	**227**	**271**	**354**	**386**	**457**	**515**	**610**
Liver and Intrahepatic Bile Duct	**246**	**1**	**2**	**2**	**5**	**9**	**22**	**21**	**22**	**28**	**26**	**48**	**37**	**23**
Pancreas	**885**	**0**	**1**	**0**	**10**	**18**	**40**	**67**	**73**	**101**	**110**	**144**	**159**	**162**
Larynx	**119**	**0**	**0**	**0**	**0**	**8**	**13**	**16**	**16**	**26**	**13**	**8**	**8**	**11**
Lung and Bronchus	**4,405**	**0**	**3**	**11**	**70**	**137**	**265**	**341**	**525**	**646**	**680**	**663**	**605**	**459**
Melanoma of Skin	**1,170**	**2**	**27**	**71**	**143**	**123**	**125**	**106**	**120**	**92**	**91**	**90**	**80**	**100**
Female Breast	**9,292**	**0**	**6**	**119**	**690**	**865**	**923**	**1,014**	**1,125**	**1,100**	**1,025**	**892**	**832**	**700**
Cervix Uteri	**459**	**0**	**6**	**61**	**98**	**52**	**62**	**46**	**38**	**35**	**20**	**15**	**13**	**13**
Corpus/Uterus, NOS	**2,351**	**0**	**1**	**22**	**95**	**137**	**242**	**374**	**404**	**363**	**237**	**198**	**151**	**127**
Ovary	**993**	**4**	**14**	**20**	**51**	**88**	**83**	**128**	**101**	**91**	**104**	**109**	**101**	**99**
Urinary Bladder	**898**	**0**	**1**	**6**	**15**	**28**	**49**	**53**	**99**	**108**	**110**	**125**	**145**	**159**
Kidney/Renal Pelvis	**857**	**8**	**3**	**11**	**47**	**54**	**71**	**84**	**109**	**93**	**116**	**101**	**84**	**76**
Brain and Other Nervous System	**415**	**29**	**11**	**16**	**25**	**27**	**34**	**44**	**44**	**33**	**30**	**33**	**45**	**44**
Thyroid	**1,801**	**7**	**77**	**204**	**361**	**219**	**222**	**209**	**143**	**124**	**101**	**63**	**49**	**22**
Non-Hodgkin Lymphoma	**1,383**	**4**	**14**	**20**	**47**	**57**	**93**	**108**	**132**	**169**	**153**	**189**	**194**	**203**
Hodgkin Lymphoma	**179**	**7**	**37**	**33**	**26**	**7**	**10**	**10**	**2**	**8**	**8**	**13**	**11**	**7**
Myeloma	**349**	**0**	**0**	**1**	**6**	**9**	**17**	**40**	**36**	**47**	**48**	**50**	**54**	**41**
Leukemia	**738**	**38**	**12**	**14**	**26**	**28**	**47**	**45**	**56**	**64**	**65**	**94**	**109**	**140**
All Other Sites	**2,935**	**39**	**17**	**34**	**88**	**109**	**156**	**188**	**261**	**286**	**340**	**379**	**448**	**590**

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Number of Cancer Cases by Age and Primary Site, Black Females
Pennsylvania Residents, 2009

Primary Site**	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**3,270**	**25**	**29**	**85**	**220**	**265**	**343**	**368**	**396**	**403**	**361**	**303**	**246**	**226**
Oral Cavity and Pharynx	**48**	**0**	**0**	**2**	**1**	**2**	**4**	**3**	**10**	**8**	**8**	**3**	**5**	**2**
Esophagus	**25**	**0**	**0**	**0**	**0**	**1**	**3**	**5**	**5**	**2**	**7**	**1**	**1**	**0**
Stomach	**55**	**0**	**0**	**0**	**2**	**3**	**5**	**2**	**5**	**10**	**8**	**5**	**6**	**9**
Colon and Rectum	**336**	**0**	**0**	**3**	**10**	**30**	**26**	**32**	**40**	**42**	**41**	**45**	**30**	**37**
Liver and Intrahepatic Bile Duct	**54**	**0**	**0**	**1**	**1**	**0**	**12**	**7**	**9**	**8**	**4**	**4**	**5**	**3**
Pancreas	**100**	**0**	**0**	**0**	**1**	**4**	**5**	**6**	**10**	**12**	**14**	**13**	**18**	**17**
Larynx	**26**	**0**	**0**	**0**	**0**	**1**	**3**	**8**	**2**	**3**	**3**	**2**	**3**	**1**
Lung and Bronchus	**527**	**0**	**0**	**0**	**8**	**32**	**50**	**57**	**79**	**83**	**74**	**61**	**36**	**47**
Melanoma of Skin	**5**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**2**	**0**	**0**	**1**	**0**
Female Breast	**920**	**0**	**2**	**25**	**94**	**108**	**118**	**122**	**110**	**91**	**84**	**75**	**51**	**40**
Cervix Uteri	**75**	**0**	**1**	**4**	**19**	**11**	**9**	**6**	**5**	**6**	**5**	**4**	**2**	**3**
Corpus/Uterus, NOS	**183**	**0**	**0**	**4**	**11**	**13**	**16**	**23**	**28**	**26**	**26**	**14**	**16**	**6**
Ovary	**62**	**2**	**2**	**3**	**2**	**4**	**7**	**3**	**10**	**7**	**5**	**5**	**8**	**4**
Urinary Bladder	**62**	**0**	**0**	**0**	**1**	**2**	**3**	**5**	**10**	**8**	**7**	**7**	**9**	**10**
Kidney/Renal Pelvis	**109**	**0**	**1**	**4**	**9**	**7**	**11**	**18**	**11**	**16**	**9**	**11**	**8**	**4**
Brain and Other Nervous System	**26**	**7**	**1**	**2**	**4**	**1**	**3**	**2**	**2**	**1**	**1**	**0**	**2**	**0**
Thyroid	**149**	**1**	**2**	**22**	**22**	**17**	**23**	**18**	**19**	**10**	**8**	**5**	**1**	**1**
Non-Hodgkin Lymphoma	**95**	**3**	**4**	**3**	**6**	**7**	**3**	**9**	**5**	**22**	**10**	**9**	**7**	**7**
Hodgkin Lymphoma	**26**	**3**	**8**	**3**	**5**	**0**	**3**	**1**	**0**	**1**	**0**	**2**	**0**	**0**
Myeloma	**86**	**0**	**0**	**0**	**3**	**4**	**5**	**13**	**15**	**5**	**11**	**11**	**12**	**7**
Leukemia	**55**	**5**	**5**	**2**	**1**	**3**	**7**	**4**	**5**	**8**	**4**	**2**	**4**	**5**
All Other Sites	**246**	**4**	**3**	**7**	**20**	**15**	**27**	**23**	**15**	**32**	**32**	**24**	**21**	**23**

* Includes any unknowns. ** With the exception of urinary bladder, all in situ cancer cases are excluded.

Notes: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER INCIDENCE (INVASIVE)

Number of Cancer Cases by Major Primary Sites, by County, Males
Pennsylvania Residents, 2009

County	All Sites**	Prostate	Lung and Bronchus	Colon and Rectum	Urinary Bladder**	Non-Hodgkin Lymphoma
All Counties	37,960	9,742	5,614	3,692	2,867	1,773
Adams	286	54	37	30	20	14
Allegheny	3,824	919	608	396	328	175
Armstrong	246	66	38	25	29	9
Beaver	563	105	108	47	55	31
Bedford	173	52	21	12	12	9
Berks	1,112	278	148	117	76	50
Blair	394	81	82	36	31	19
Bradford	213	69	26	17	23	14
Bucks	1,897	577	234	141	145	89
Butler	618	213	87	52	50	27
Cambria	509	117	62	62	61	27
Cameron	27	9	6	4	1	0
Carbon	259	45	55	19	27	9
Centre	315	91	35	27	24	16
Chester	1,386	393	149	111	102	69
Clarion	149	48	23	14	12	9
Clearfield	290	62	34	30	19	13
Clinton	118	36	17	10	14	7
Columbia	225	53	37	18	15	11
Crawford	275	87	45	23	21	11
Cumberland	646	125	74	69	49	37
Dauphin	633	108	108	62	44	34
Delaware	1,730	490	256	168	109	63
Elk	142	60	15	11	8	8
Erie	739	201	114	73	48	45
Fayette	495	89	99	63	45	20
Forest	17	3	4	4	1	2
Franklin	479	117	72	46	33	30
Fulton	53	13	9	3	5	2
Greene	122	33	20	12	6	3
Huntingdon	130	30	21	16	13	5
Indiana	242	63	24	30	23	12
Jefferson	153	32	24	13	13	12
Juniata	49	5	11	6	5	4
Lackawanna	677	154	110	69	47	29
Lancaster	1,422	378	198	152	94	77
Lawrence	282	63	49	18	24	14
Lebanon	402	104	64	38	33	15
Lehigh	972	236	129	97	82	54
Luzerne	1,073	221	178	108	69	51
Lycoming	378	97	57	35	28	11
McKean	126	30	14	17	10	9
Mercer	426	122	59	53	37	15
Mifflin	129	38	22	16	5	6
Monroe	446	116	73	37	35	21
Montgomery	2,348	695	279	202	164	125
Montour	60	22	4	4	5	4
Northampton	960	270	130	68	73	51
Northumberland	333	92	53	32	18	12
Perry	137	20	34	8	7	6
Philadelphia	3,927	1,080	625	402	247	133
Pike	194	55	29	22	19	9
Potter	59	15	8	5	3	3
Schuylkill	502	105	78	68	37	18
Snyder	108	30	15	4	7	6
Somerset	270	62	34	31	24	16
Sullivan	33	7	5	6	4	0
Susquehanna	139	51	16	10	11	3
Tioga	149	41	25	18	12	7
Union	135	44	17	10	3	10
Venango	170	36	30	14	20	6
Warren	173	58	19	15	14	10
Washington	691	164	118	77	59	35
Wayne	190	40	31	18	12	8
Westmoreland	1,288	305	196	144	108	71
Wyoming	102	21	22	5	5	3
York	1,150	246	190	122	84	49

** With the exception of urinary bladder, all in situ cancer cases are excluded

2009 CANCER INCIDENCE (INVASIVE)

Number of Cancer Cases by Major Primary Sites, by County, Females
Pennsylvania Residents, 2009

County	All Sites**	Female Breast	Lung and Bronchus	Colon and Rectum	Corpus and Uterus, NOS	Thyroid
All Counties	37,820	10,421	4,994	3,624	2,595	2,034
Adams	283	79	30	35	17	16
Allegheny	4,149	1,141	619	410	249	268
Armstrong	222	58	24	19	14	11
Beaver	567	179	77	51	36	21
Bedford	134	43	18	8	13	7
Berks	1,149	305	139	107	66	54
Blair	395	103	56	44	31	11
Bradford	204	56	28	19	11	5
Bucks	1,891	535	213	151	121	123
Butler	551	164	69	41	31	42
Cambria	512	145	52	54	38	21
Cameron	21	7	1	4	1	0
Carbon	235	64	27	18	14	13
Centre	275	75	36	31	21	14
Chester	1,351	372	154	121	101	93
Clarion	143	40	18	19	10	6
Clearfield	243	66	35	22	11	8
Clinton	115	32	17	7	7	13
Columbia	202	49	16	19	17	10
Crawford	229	64	39	20	10	10
Cumberland	726	201	83	66	57	49
Dauphin	743	220	83	76	59	52
Delaware	1,722	496	270	156	118	77
Elk	107	27	15	8	12	8
Erie	754	208	101	59	54	55
Fayette	441	98	68	60	23	30
Forest	12	1	3	1	1	1
Franklin	424	117	45	41	29	18
Fulton	37	7	3	4	3	2
Greene	129	36	19	12	11	7
Huntingdon	108	30	12	13	5	4
Indiana	217	50	28	28	19	19
Jefferson	129	38	23	11	6	5
Juniata	55	14	5	8	6	0
Lackawanna	727	184	105	77	50	45
Lancaster	1,301	361	162	138	99	56
Lawrence	296	80	45	33	16	28
Lebanon	377	90	42	39	36	18
Lehigh	1,008	288	124	81	63	57
Luzerne	1,157	302	133	130	84	67
Lycoming	390	106	49	40	22	23
McKean	122	24	20	14	7	6
Mercer	406	124	55	47	26	13
Mifflin	153	41	22	12	12	9
Monroe	426	108	65	37	30	19
Montgomery	2,336	688	311	216	165	106
Montour	58	17	8	4	2	3
Northampton	933	243	104	81	82	63
Northumberland	295	81	27	32	23	10
Perry	127	36	11	8	12	10
Philadelphia	4,130	1,112	641	423	272	168
Pike	168	38	16	15	15	5
Potter	42	7	12	1	4	4
Schuylkill	536	146	71	56	40	10
Snyder	108	27	6	12	10	5
Somerset	232	61	16	23	13	15
Sullivan	22	4	1	1	4	0
Susquehanna	108	34	16	10	7	4
Tioga	130	31	17	15	10	6
Union	114	21	21	5	8	8
Venango	186	58	24	13	12	9
Warren	152	36	20	16	11	10
Washington	652	180	93	66	44	22
Wayne	144	37	17	15	8	9
Westmoreland	1,221	372	167	122	82	49
Wyoming	91	30	5	10	3	7
York	1,197	334	142	89	101	97

** With the exception of urinary bladder, all in situ cancer cases are excluded

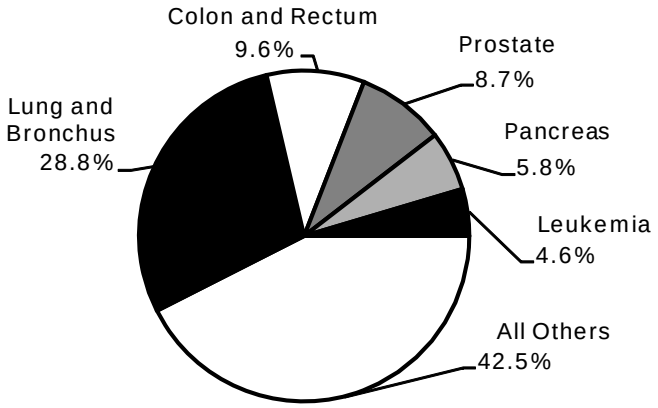
2009 CANCER MORTALITY

Data Highlights

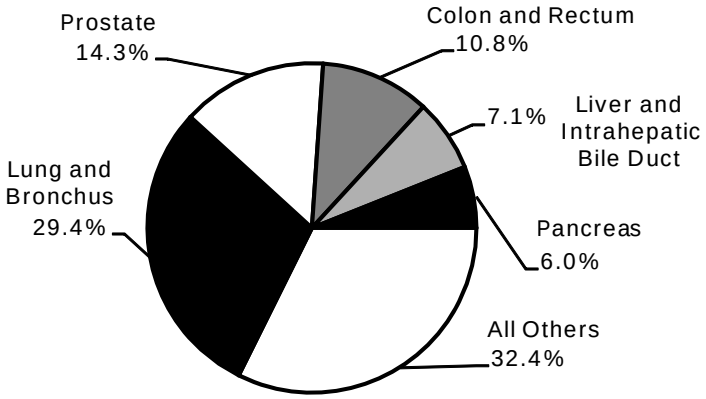
There were 28,680 cancer deaths reported in 2009 among Pennsylvania residents. Seven sites had more than 1,000 deaths each: lung and bronchus (7,702); colon and rectum (2,749); female breast (2,111); pancreas (1,773); prostate (1,338); leukemia (1,157); and non-Hodgkin lymphoma (1,074). Cancer deaths combined for these seven sites represented 62 percent of all of the cancer deaths reported among state residents in 2009.

Age-adjusted death rates by sex and race for 2009 showed that white males had their highest rates for cancers of the lung and bronchus, followed by colon/rectum, prostate, pancreas, and leukemia. Among black males, lung and bronchus had the highest age-adjusted cancer death rate, followed by cancers of the prostate, colon/rectum, liver/intrahepatic bile duct, and the pancreas. The highest age-adjusted death rates for white females occurred for cancers of the lung and bronchus, breast, colon and rectum, pancreas, and ovary. The top four cancer sites/types with the highest death rates among black females were the same as those that occurred for white females, followed by corpus and uterus cancer. The percentage distribution of cancer deaths for the major sites by sex and race were similar to the rates and are shown in the pie charts below.

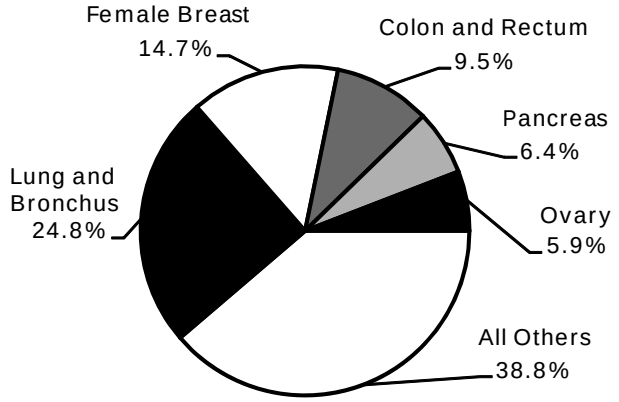
Cancer Deaths by Sex and Race,
Percent by Major Primary Sites, Pennsylvania Residents, 2009



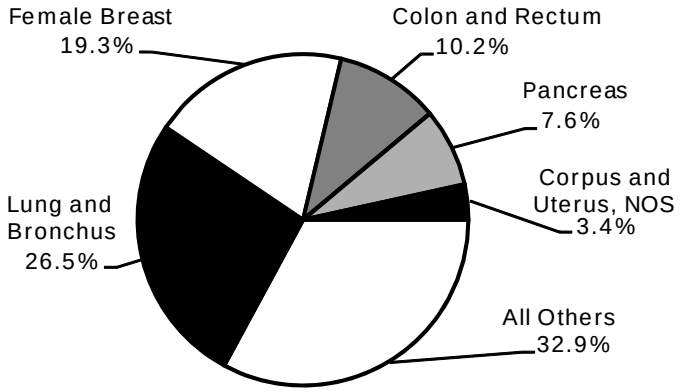
WHITE MALES



BLACK MALES



WHITE FEMALES



BLACK FEMALES

NOTE: Percents may not add to 100.0 due to rounding.

2009 CANCER MORTALITY

Number of Cancer Deaths by Sex, Race, and Primary Site
Pennsylvania Residents, 2009

		Males			Females		
Primary Site	All Deaths*	All Races*	White	Black	All Races*	White	Black
All Sites	**28,680**	**14,680**	**13,224**	**1,337**	**14,000**	**12,529**	**1,379**
Oral Cavity and Pharynx	**344**	**238**	**208**	**26**	**106**	**97**	**9**
Esophagus	**787**	**639**	**593**	**45**	**148**	**135**	**12**
Stomach	**497**	**307**	**255**	**45**	**190**	**162**	**25**
Colon and Rectum	**2,749**	**1,410**	**1,265**	**139**	**1,339**	**1,192**	**136**
Liver and Intrahepatic Bile Duct	**851**	**584**	**484**	**92**	**267**	**224**	**40**
Pancreas	**1,773**	**860**	**773**	**78**	**913**	**801**	**102**
Larynx	**184**	**146**	**124**	**20**	**38**	**31**	**7**
Lung and Bronchus	**7,702**	**4,223**	**3,808**	**380**	**3,479**	**3,107**	**354**
Melanoma of the Skin	**470**	**299**	**297**	**2**	**171**	**170**	**1**
Female Breast	**2,111**	**-**	**-**	**-**	**2,111**	**1,837**	**257**
Cervix Uteri	**176**	**-**	**-**	**-**	**176**	**142**	**32**
Corpus and Uterus, NOS	**462**	**-**	**-**	**-**	**462**	**412**	**46**
Ovary	**782**	**-**	**-**	**-**	**782**	**736**	**43**
Prostate	**1,338**	**1,338**	**1,145**	**185**	**-**	**-**	**-**
Testis	**21**	**21**	**21**	**0**	**-**	**-**	**-**
Urinary Bladder	**787**	**562**	**528**	**33**	**225**	**209**	**16**
Kidney/Renal Pelvis	**648**	**403**	**377**	**24**	**245**	**227**	**17**
Brain and Other Nervous System	**664**	**354**	**329**	**22**	**310**	**294**	**14**
Thyroid	**85**	**29**	**28**	**1**	**56**	**47**	**7**
Non-Hodgkin Lymphoma	**1,074**	**571**	**530**	**38**	**503**	**468**	**32**
Hodgkin Lymphoma	**57**	**27**	**25**	**2**	**30**	**27**	**3**
Myeloma	**462**	**252**	**211**	**37**	**210**	**167**	**43**
Leukemia	**1,157**	**653**	**608**	**40**	**504**	**467**	**35**
All Other Sites	**3,499**	**1,764**	**1,615**	**128**	**1,735**	**1,577**	**148**

* Includes any unknowns.
Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

2009 CANCER MORTALITY

Annual Age-Adjusted Cancer Death Rates and 95% Confidence Intervals by Sex, Race, and Primary Site, Pennsylvania Residents, 2009

		Males					Females		
	All Deaths*	All Races*		White		Black	All Races*		White		Black	
Primary Site	Rate (CI)	Rate	(CI)	Rate	(CI)	Rate	(CI)	Rate	(CI)	Rate	(CI)	Rate	(CI)
All Sites	**183.0** (180.9-185.1)	**224.4**	(220.8-228.0)	**221.1**	(217.3-224.9)	**307.1**	(290.6-323.6)	**154.9**	(152.3-157.5)	**152.6**	(149.9-155.3)	**202.2**	(191.5-212.9)
Oral Cavity and Pharynx	**2.2** (2.0-2.4)	**3.5**	(3.1-3.9)	**3.4**	(2.9-3.9)	**5.7**	(3.5-7.9)	**1.1**	(0.9-1.3)	**1.1**	(0.9-1.3)	**ND**	
Esophagus	**5.0** (4.7-5.3)	**9.5**	(8.8-10.2)	**9.6**	(8.8-10.4)	**9.6**	(6.8-12.4)	**1.6**	(1.3-1.9)	**1.6**	(1.3-1.9)	**ND**	
Stomach	**3.2** (2.9-3.5)	**4.7**	(4.2-5.2)	**4.3**	(3.8-4.8)	**10.8**	(7.6-14.0)	**2.0**	(1.7-2.3)	**1.9**	(1.6-2.2)	**3.3**	(2.0-4.6)
Colon and Rectum	**17.3** (16.7-17.9)	**21.6**	(20.5-22.7)	**21.2**	(20.0-22.4)	**32.5**	(27.1-37.9)	**14.0**	(13.3-14.7)	**13.6**	(12.8-14.4)	**19.9**	(16.6-23.2)
Liver and Intrahepatic Bile Duct	**5.5** (5.1-5.9)	**8.6**	(7.9-9.3)	**7.9**	(7.2-8.6)	**18.8**	(15.0-22.6)	**3.0**	(2.6-3.4)	**2.7**	(2.3-3.1)	**5.9**	(4.1-7.7)
Pancreas	**11.3** (10.8-11.8)	**13.0**	(12.1-13.9)	**12.8**	(11.9-13.7)	**17.6**	(13.7-21.5)	**10.0**	(9.4-10.6)	**9.6**	(8.9-10.3)	**15.2**	(12.3-18.1)
Larynx	**1.2** (1.0-1.4)	**2.2**	(1.8-2.6)	**2.0**	(1.6-2.4)	**4.6**	(2.6-6.6)	**0.4**	(0.3-0.5)	**0.4**	(0.3-0.5)	**ND**	
Lung and Bronchus	**49.7** (48.6-50.8)	**64.5**	(62.6-66.4)	**63.5**	(61.5-65.5)	**88.1**	(79.2-97.0)	**39.2**	(37.9-40.5)	**38.6**	(37.2-40.0)	**52.4**	(46.9-57.9)
Melanoma of Skin	**3.1** (2.8-3.4)	**4.5**	(4.0-5.0)	**4.9**	(4.3-5.5)	**ND**		**2.0**	(1.7-2.3)	**2.2**	(1.9-2.5)	**ND**	
Female Breast	–	–		–		–		**23.8**	(22.8-24.8)	**22.8**	(21.8-23.8)	**37.5**	(32.9-42.1)
Cervix Uteri	–	–		–		–		**2.3**	(2.0-2.6)	**2.1**	(1.8-2.4)	**4.9**	(3.2-6.6)
Corpus/Uterus, NOS	–	–		–		–		**5.2**	(4.7-5.7)	**5.1**	(4.6-5.6)	**7.0**	(5.0-9.0)
Ovary	–	–		–		–		**8.9**	(8.3-9.5)	**9.2**	(8.5-9.9)	**6.4**	(4.5-8.3)
Prostate	–	**21.0**	(19.9-22.1)	**19.5**	(18.4-20.6)	**46.9**	(40.1-53.7)	–		–		–	
Testis	–	**0.3**	(0.2-0.4)	**0.4**	(0.2-0.6)	**ND**		–		–		–	
Urinary Bladder	**4.8** (4.5-5.1)	**8.7**	(8.0-9.4)	**8.9**	(8.1-9.7)	**8.0**	(5.3-10.7)	**2.2**	(1.9-2.5)	**2.3**	(2.0-2.6)	**ND**	
Kidney/Renal Pelvis	**4.2** (3.9-4.5)	**6.1**	(5.5-6.7)	**6.2**	(5.6-6.8)	**5.6**	(3.4-7.8)	**2.6**	(2.3-2.9)	**2.7**	(2.3-3.1)	**ND**	
Brain and Other Nervous System	**4.4** (4.1-4.7)	**5.3**	(4.7-5.9)	**5.5**	(4.9-6.1)	**4.2**	(2.4-6.0)	**3.7**	(3.3-4.1)	**3.9**	(3.5-4.3)	**ND**	
Thyroid	**0.5** (0.4-0.6)	**0.4**	(0.3-0.5)	**0.5**	(0.3-0.7)	**ND**		**0.6**	(0.4-0.8)	**0.6**	(0.4-0.8)	**ND**	
Non-Hodgkin Lymphoma	**6.8** (6.4-7.2)	**8.9**	(8.2-9.6)	**9.0**	(8.2-9.8)	**7.9**	(5.4-10.4)	**5.3**	(4.8-5.8)	**5.4**	(4.9-5.9)	**4.7**	(3.1-6.3)
Hodgkin Lymphoma	**0.4** (0.3-0.5)	**0.4**	(0.2-0.6)	**0.4**	(0.2-0.6)	**ND**		**0.4**	(0.3-0.5)	**0.4**	(0.2-0.6)	**ND**	
Myeloma	**3.0** (2.7-3.3)	**3.9**	(3.4-4.4)	**3.6**	(3.1-4.1)	**8.0**	(5.4-10.6)	**2.3**	(2.0-2.6)	**2.0**	(1.7-2.3)	**6.3**	(4.4-8.2)
Leukemia	**7.5** (7.1-7.9)	**10.2**	(9.4-11.0)	**10.4**	(9.6-11.2)	**8.8**	(6.1-11.5)	**5.6**	(5.1-6.1)	**5.7**	(5.2-6.2)	**5.1**	(3.4-6.8)

* Includes any unknowns.

NOTES: Age-adjusted rates are per 100,000 and are computed by the direct method using the 2000 U.S. standard million population. Rates based on less than 20 events are statistically unreliable and are not displayed (ND). CI = 95% confidence interval based on a formula for estimating the standard error or SE (see Technical Notes) Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

2009 CANCER MORTALITY

Number of Cancer Deaths by Age and Primary Site
Pennsylvania Residents, 2009

Primary Site	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**28,680**	**41**	**74**	**143**	**505**	**810**	**1,524**	**2,045**	**2,783**	**3,267**	**3,530**	**4,130**	**4,644**	**5,182**
Oral Cavity and Pharynx	**344**	**0**	**2**	**0**	**9**	**13**	**26**	**40**	**46**	**41**	**36**	**34**	**44**	**53**
Esophagus	**787**	**0**	**0**	**4**	**11**	**24**	**52**	**75**	**111**	**112**	**99**	**99**	**100**	**100**
Stomach	**497**	**0**	**0**	**3**	**16**	**24**	**25**	**30**	**40**	**58**	**50**	**59**	**86**	**106**
Colon and Rectum	**2,749**	**0**	**2**	**12**	**52**	**83**	**137**	**172**	**235**	**270**	**303**	**353**	**490**	**640**
Liver and Intrahepatic Bile Duct	**851**	**1**	**2**	**2**	**10**	**30**	**78**	**119**	**95**	**119**	**82**	**113**	**111**	**89**
Pancreas	**1,773**	**0**	**0**	**4**	**17**	**34**	**112**	**130**	**179**	**227**	**242**	**290**	**252**	**286**
Larynx	**184**	**0**	**0**	**1**	**4**	**4**	**17**	**22**	**27**	**23**	**12**	**31**	**28**	**15**
Lung and Bronchus	**7,702**	**0**	**0**	**5**	**84**	**189**	**378**	**528**	**828**	**1,094**	**1,149**	**1,238**	**1,221**	**988**
Melanoma of Skin	**470**	**0**	**3**	**7**	**21**	**19**	**34**	**39**	**54**	**49**	**52**	**60**	**68**	**64**
Female Breast	**2,111**	**0**	**0**	**11**	**78**	**108**	**160**	**183**	**233**	**206**	**201**	**225**	**262**	**443**
Cervix Uteri	**176**	**0**	**0**	**7**	**17**	**19**	**26**	**26**	**16**	**20**	**13**	**17**	**8**	**7**
Corpus/Uterus, NOS	**462**	**0**	**1**	**2**	**7**	**15**	**24**	**22**	**54**	**60**	**56**	**72**	**76**	**73**
Ovary	**782**	**0**	**1**	**2**	**18**	**18**	**57**	**67**	**84**	**86**	**113**	**99**	**114**	**123**
Prostate	**1,338**	**0**	**0**	**0**	**0**	**5**	**8**	**38**	**58**	**81**	**143**	**224**	**283**	**498**
Testis	**21**	**0**	**2**	**5**	**1**	**3**	**2**	**4**	**1**	**0**	**1**	**0**	**0**	**2**
Urinary Bladder	**787**	**0**	**0**	**1**	**3**	**7**	**16**	**31**	**53**	**77**	**82**	**113**	**169**	**235**
Kidney/Renal Pelvis	**648**	**0**	**0**	**2**	**7**	**19**	**39**	**53**	**69**	**71**	**100**	**95**	**92**	**101**
Brain and Other Nervous System	**664**	**12**	**9**	**14**	**26**	**40**	**66**	**86**	**73**	**66**	**70**	**72**	**76**	**54**
Thyroid	**85**	**0**	**0**	**1**	**1**	**1**	**4**	**4**	**11**	**16**	**12**	**11**	**8**	**16**
Non-Hodgkin Lymphoma	**1,074**	**1**	**3**	**7**	**26**	**25**	**37**	**56**	**81**	**94**	**127**	**154**	**230**	**233**
Hodgkin Lymphoma	**57**	**0**	**6**	**4**	**4**	**4**	**3**	**2**	**4**	**4**	**5**	**8**	**8**	**5**
Myeloma	**462**	**0**	**0**	**2**	**5**	**7**	**12**	**31**	**41**	**32**	**74**	**93**	**85**	**80**
Leukemia	**1,157**	**18**	**19**	**21**	**26**	**29**	**45**	**57**	**95**	**103**	**120**	**171**	**224**	**229**
All Other Sites	**3,499**	**9**	**24**	**26**	**62**	**90**	**166**	**230**	**295**	**358**	**388**	**499**	**609**	**742**

* Includes any unknowns.

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

2009 CANCER MORTALITY

Number of Cancer Deaths by Age and Primary Site, Males
Pennsylvania Residents, 2009

Primary Site	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**14,680**	**20**	**38**	**84**	**235**	**385**	**775**	**1,120**	**1,529**	**1,806**	**1,866**	**2,205**	**2,352**	**2,265**
Oral Cavity and Pharynx	**238**	**0**	**0**	**0**	**7**	**10**	**23**	**29**	**36**	**32**	**25**	**28**	**27**	**21**
Esophagus	**639**	**0**	**0**	**4**	**8**	**22**	**46**	**66**	**95**	**102**	**73**	**76**	**78**	**69**
Stomach	**307**	**0**	**0**	**3**	**11**	**15**	**21**	**24**	**34**	**38**	**33**	**37**	**46**	**45**
Colon and Rectum	**1,410**	**0**	**1**	**9**	**36**	**46**	**74**	**107**	**149**	**153**	**170**	**200**	**242**	**223**
Liver and Intrahepatic Bile Duct	**584**	**0**	**0**	**1**	**7**	**26**	**60**	**97**	**74**	**82**	**59**	**74**	**58**	**46**
Pancreas	**860**	**0**	**0**	**2**	**11**	**21**	**68**	**78**	**93**	**131**	**112**	**141**	**99**	**104**
Larynx	**146**	**0**	**0**	**1**	**4**	**4**	**12**	**18**	**22**	**19**	**10**	**20**	**26**	**10**
Lung and Bronchus	**4,223**	**0**	**0**	**4**	**43**	**97**	**217**	**297**	**473**	**633**	**621**	**683**	**684**	**471**
Melanoma of Skin	**299**	**0**	**2**	**4**	**11**	**10**	**21**	**28**	**38**	**38**	**34**	**39**	**40**	**34**
Prostate	**1,338**	**0**	**0**	**0**	**0**	**5**	**8**	**38**	**58**	**81**	**143**	**224**	**283**	**498**
Testis	**21**	**0**	**2**	**5**	**1**	**3**	**2**	**4**	**1**	**0**	**1**	**0**	**0**	**2**
Urinary Bladder	**562**	**0**	**0**	**1**	**3**	**5**	**13**	**25**	**41**	**59**	**62**	**79**	**121**	**153**
Kidney/Renal Pelvis	**403**	**0**	**0**	**1**	**4**	**13**	**26**	**38**	**52**	**52**	**64**	**64**	**50**	**39**
Brain and Other Nervous System	**354**	**6**	**5**	**7**	**18**	**24**	**37**	**52**	**41**	**42**	**36**	**38**	**28**	**20**
Thyroid	**29**	**0**	**0**	**0**	**1**	**0**	**2**	**2**	**4**	**7**	**3**	**5**	**1**	**4**
Non-Hodgkin Lymphoma	**571**	**1**	**1**	**5**	**17**	**14**	**20**	**35**	**48**	**58**	**74**	**89**	**117**	**92**
Hodgkin Lymphoma	**27**	**0**	**2**	**3**	**1**	**1**	**3**	**1**	**2**	**3**	**2**	**4**	**2**	**3**
Myeloma	**252**	**0**	**0**	**2**	**3**	**6**	**7**	**19**	**26**	**15**	**47**	**47**	**41**	**39**
Leukemia	**653**	**9**	**10**	**16**	**15**	**16**	**22**	**38**	**60**	**58**	**84**	**102**	**116**	**107**
All Other Sites	**1,764**	**4**	**15**	**16**	**34**	**47**	**93**	**124**	**182**	**203**	**213**	**255**	**293**	**285**

* Includes any unknowns.

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER MORTALITY

Number of Cancer Deaths by Age and Primary Site, Females
Pennsylvania Residents, 2009

Primary Site	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**14,000**	**21**	**36**	**59**	**270**	**425**	**749**	**925**	**1,254**	**1,461**	**1,664**	**1,925**	**2,292**	**2,917**
Oral Cavity and Pharynx	**106**	**0**	**2**	**0**	**2**	**3**	**3**	**11**	**10**	**9**	**11**	**6**	**17**	**32**
Esophagus	**148**	**0**	**0**	**0**	**3**	**2**	**6**	**9**	**16**	**10**	**26**	**23**	**22**	**31**
Stomach	**190**	**0**	**0**	**0**	**5**	**9**	**4**	**6**	**6**	**20**	**17**	**22**	**40**	**61**
Colon and Rectum	**1,339**	**0**	**1**	**3**	**16**	**37**	**63**	**65**	**86**	**117**	**133**	**153**	**248**	**417**
Liver and Intrahepatic Bile Duct	**267**	**1**	**2**	**1**	**3**	**4**	**18**	**22**	**21**	**37**	**23**	**39**	**53**	**43**
Pancreas	**913**	**0**	**0**	**2**	**6**	**13**	**44**	**52**	**86**	**96**	**130**	**149**	**153**	**182**
Larynx	**38**	**0**	**0**	**0**	**0**	**0**	**5**	**4**	**5**	**4**	**2**	**11**	**2**	**5**
Lung and Bronchus	**3,479**	**0**	**0**	**1**	**41**	**92**	**161**	**231**	**355**	**461**	**528**	**555**	**537**	**517**
Melanoma of Skin	**171**	**0**	**1**	**3**	**10**	**9**	**13**	**11**	**16**	**11**	**18**	**21**	**28**	**30**
Female Breast	**2,111**	**0**	**0**	**11**	**78**	**108**	**160**	**183**	**233**	**206**	**201**	**225**	**262**	**443**
Cervix Uteri	**176**	**0**	**0**	**7**	**17**	**19**	**26**	**26**	**16**	**20**	**13**	**17**	**8**	**7**
Corpus/Uterus, NOS	**462**	**0**	**1**	**2**	**7**	**15**	**24**	**22**	**54**	**60**	**56**	**72**	**76**	**73**
Ovary	**782**	**0**	**1**	**2**	**18**	**18**	**57**	**67**	**84**	**86**	**113**	**99**	**114**	**123**
Urinary Bladder	**225**	**0**	**0**	**0**	**0**	**2**	**3**	**6**	**12**	**18**	**20**	**34**	**48**	**82**
Kidney/Renal Pelvis	**245**	**0**	**0**	**1**	**3**	**6**	**13**	**15**	**17**	**19**	**36**	**31**	**42**	**62**
Brain and Other Nervous System	**310**	**6**	**4**	**7**	**8**	**16**	**29**	**34**	**32**	**24**	**34**	**34**	**48**	**34**
Thyroid	**56**	**0**	**0**	**1**	**0**	**1**	**2**	**2**	**7**	**9**	**9**	**6**	**7**	**12**
Non-Hodgkin Lymphoma	**503**	**0**	**2**	**2**	**9**	**11**	**17**	**21**	**33**	**36**	**53**	**65**	**113**	**141**
Hodgkin Lymphoma	**30**	**0**	**4**	**1**	**3**	**3**	**0**	**1**	**2**	**1**	**3**	**4**	**6**	**2**
Myeloma	**210**	**0**	**0**	**0**	**2**	**1**	**5**	**12**	**15**	**17**	**27**	**46**	**44**	**41**
Leukemia	**504**	**9**	**9**	**5**	**11**	**13**	**23**	**19**	**35**	**45**	**36**	**69**	**108**	**122**
All Other Sites	**1,735**	**5**	**9**	**10**	**28**	**43**	**73**	**106**	**113**	**155**	**175**	**244**	**316**	**457**

* Includes any unknowns.

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER MORTALITY

Number of Cancer Deaths by Age and Primary Site, White Males
Pennsylvania Residents, 2009

Primary Site	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**13,224**	**18**	**29**	**69**	**199**	**328**	**666**	**970**	**1,357**	**1,615**	**1,671**	**2,032**	**2,183**	**2,087**
Oral Cavity and Pharynx	**208**	**0**	**0**	**0**	**7**	**8**	**19**	**26**	**30**	**28**	**25**	**25**	**23**	**17**
Esophagus	**593**	**0**	**0**	**4**	**6**	**19**	**42**	**58**	**90**	**92**	**69**	**76**	**71**	**66**
Stomach	**255**	**0**	**0**	**3**	**9**	**14**	**16**	**21**	**31**	**27**	**27**	**31**	**39**	**37**
Colon and Rectum	**1,265**	**0**	**1**	**6**	**33**	**38**	**61**	**102**	**131**	**138**	**150**	**184**	**219**	**202**
Liver and Intrahepatic Bile Duct	**484**	**0**	**0**	**1**	**5**	**23**	**50**	**74**	**52**	**68**	**47**	**68**	**55**	**41**
Pancreas	**773**	**0**	**0**	**2**	**6**	**19**	**55**	**69**	**85**	**116**	**103**	**128**	**92**	**98**
Larynx	**124**	**0**	**0**	**0**	**3**	**4**	**8**	**17**	**19**	**15**	**8**	**17**	**24**	**9**
Lung and Bronchus	**3,808**	**0**	**0**	**4**	**35**	**81**	**190**	**249**	**423**	**569**	**559**	**629**	**634**	**435**
Melanoma of Skin	**297**	**0**	**2**	**4**	**11**	**9**	**21**	**28**	**37**	**38**	**34**	**39**	**40**	**34**
Prostate	**1,145**	**0**	**0**	**0**	**0**	**5**	**8**	**25**	**45**	**67**	**108**	**193**	**252**	**442**
Testis	**21**	**0**	**2**	**5**	**1**	**3**	**2**	**4**	**1**	**0**	**1**	**0**	**0**	**2**
Urinary Bladder	**528**	**0**	**0**	**1**	**3**	**4**	**12**	**24**	**37**	**52**	**59**	**74**	**117**	**145**
Kidney/Renal Pelvis	**377**	**0**	**0**	**1**	**2**	**13**	**23**	**37**	**48**	**50**	**58**	**61**	**47**	**37**
Brain and Other Nervous System	**329**	**4**	**4**	**5**	**18**	**21**	**35**	**48**	**36**	**40**	**34**	**36**	**28**	**20**
Thyroid	**28**	**0**	**0**	**0**	**1**	**0**	**2**	**2**	**4**	**6**	**3**	**5**	**1**	**4**
Non-Hodgkin Lymphoma	**530**	**1**	**1**	**4**	**12**	**9**	**16**	**29**	**44**	**55**	**72**	**86**	**113**	**88**
Hodgkin Lymphoma	**25**	**0**	**2**	**3**	**1**	**1**	**2**	**0**	**2**	**3**	**2**	**4**	**2**	**3**
Myeloma	**211**	**0**	**0**	**1**	**1**	**1**	**5**	**12**	**20**	**14**	**42**	**44**	**37**	**34**
Leukemia	**608**	**9**	**7**	**13**	**12**	**12**	**20**	**36**	**56**	**55**	**78**	**99**	**110**	**101**
All Other Sites	**1,615**	**4**	**10**	**12**	**33**	**44**	**79**	**109**	**166**	**182**	**192**	**233**	**279**	**272**

* Includes any unknowns.

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER MORTALITY

Number of Cancer Deaths by Age and Primary Site, Black Males
Pennsylvania Residents, 2009

Primary Site	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**1,337**	**2**	**8**	**12**	**33**	**53**	**104**	**140**	**153**	**177**	**178**	**156**	**155**	**166**
Oral Cavity and Pharynx	**26**	**0**	**0**	**0**	**0**	**1**	**4**	**2**	**5**	**4**	**0**	**2**	**4**	**4**
Esophagus	**45**	**0**	**0**	**0**	**2**	**3**	**4**	**8**	**5**	**9**	**4**	**0**	**7**	**3**
Stomach	**45**	**0**	**0**	**0**	**2**	**1**	**5**	**1**	**3**	**8**	**5**	**6**	**7**	**7**
Colon and Rectum	**139**	**0**	**0**	**3**	**3**	**8**	**13**	**5**	**16**	**15**	**19**	**14**	**22**	**21**
Liver and Intrahepatic Bile Duct	**92**	**0**	**0**	**0**	**2**	**3**	**10**	**22**	**19**	**12**	**11**	**5**	**3**	**5**
Pancreas	**78**	**0**	**0**	**0**	**4**	**2**	**13**	**8**	**8**	**12**	**7**	**12**	**6**	**6**
Larynx	**20**	**0**	**0**	**0**	**1**	**0**	**3**	**1**	**3**	**4**	**2**	**3**	**2**	**1**
Lung and Bronchus	**380**	**0**	**0**	**0**	**7**	**16**	**27**	**46**	**46**	**60**	**57**	**48**	**44**	**29**
Melanoma of Skin	**2**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**
Prostate	**185**	**0**	**0**	**0**	**0**	**0**	**0**	**12**	**11**	**14**	**33**	**30**	**30**	**55**
Testis	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Urinary Bladder	**33**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**3**	**7**	**3**	**5**	**4**	**8**
Kidney/Renal Pelvis	**24**	**0**	**0**	**0**	**2**	**0**	**3**	**1**	**4**	**2**	**5**	**3**	**2**	**2**
Brain and Other Nervous System	**22**	**2**	**1**	**1**	**0**	**2**	**2**	**4**	**4**	**2**	**2**	**2**	**0**	**0**
Thyroid	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**
Non-Hodgkin Lymphoma	**38**	**0**	**0**	**1**	**5**	**5**	**3**	**6**	**4**	**2**	**2**	**3**	**3**	**4**
Hodgkin Lymphoma	**2**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
Myeloma	**37**	**0**	**0**	**1**	**2**	**4**	**2**	**6**	**6**	**1**	**5**	**3**	**4**	**3**
Leukemia	**40**	**0**	**3**	**2**	**2**	**3**	**2**	**2**	**3**	**3**	**5**	**3**	**6**	**6**
All Other Sites	**128**	**0**	**4**	**4**	**1**	**3**	**11**	**14**	**12**	**21**	**18**	**17**	**11**	**12**

* Includes any unknowns.

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER MORTALITY

Number of Cancer Deaths by Age and Primary Site, White Females
Pennsylvania Residents, 2009

Primary Site	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**12,529**	**16**	**31**	**49**	**221**	**354**	**626**	**794**	**1,101**	**1,290**	**1,464**	**1,743**	**2,118**	**2,720**
Oral Cavity and Pharynx	**97**	**0**	**2**	**0**	**1**	**3**	**3**	**10**	**8**	**9**	**8**	**6**	**17**	**30**
Esophagus	**135**	**0**	**0**	**0**	**1**	**2**	**5**	**6**	**14**	**10**	**23**	**23**	**20**	**31**
Stomach	**162**	**0**	**0**	**0**	**4**	**7**	**4**	**6**	**4**	**17**	**16**	**18**	**38**	**48**
Colon and Rectum	**1,192**	**0**	**1**	**3**	**13**	**32**	**52**	**51**	**79**	**98**	**114**	**133**	**224**	**392**
Liver and Intrahepatic Bile Duct	**224**	**0**	**2**	**1**	**2**	**4**	**14**	**16**	**14**	**28**	**19**	**33**	**52**	**39**
Pancreas	**801**	**0**	**0**	**1**	**5**	**12**	**35**	**48**	**74**	**91**	**105**	**130**	**135**	**165**
Larynx	**31**	**0**	**0**	**0**	**0**	**0**	**4**	**3**	**4**	**3**	**2**	**8**	**2**	**5**
Lung and Bronchus	**3,107**	**0**	**0**	**1**	**35**	**76**	**137**	**199**	**305**	**409**	**469**	**506**	**495**	**475**
Melanoma of Skin	**170**	**0**	**1**	**3**	**10**	**9**	**12**	**11**	**16**	**11**	**18**	**21**	**28**	**30**
Female Breast	**1,837**	**0**	**0**	**6**	**64**	**88**	**124**	**149**	**207**	**179**	**177**	**194**	**235**	**413**
Cervix Uteri	**142**	**0**	**0**	**7**	**10**	**15**	**22**	**22**	**12**	**16**	**12**	**13**	**6**	**7**
Corpus/Uterus, NOS	**412**	**0**	**1**	**2**	**7**	**13**	**21**	**20**	**46**	**53**	**48**	**62**	**72**	**67**
Ovary	**736**	**0**	**1**	**1**	**17**	**15**	**54**	**61**	**79**	**82**	**102**	**96**	**108**	**120**
Urinary Bladder	**209**	**0**	**0**	**0**	**0**	**2**	**3**	**5**	**12**	**17**	**19**	**30**	**46**	**75**
Kidney/Renal Pelvis	**227**	**0**	**0**	**1**	**3**	**4**	**13**	**14**	**15**	**17**	**33**	**31**	**38**	**58**
Brain and Other Nervous System	**294**	**4**	**4**	**7**	**8**	**12**	**27**	**32**	**32**	**23**	**33**	**33**	**46**	**33**
Thyroid	**47**	**0**	**0**	**1**	**0**	**1**	**1**	**2**	**6**	**7**	**4**	**6**	**7**	**12**
Non-Hodgkin Lymphoma	**468**	**0**	**1**	**1**	**5**	**7**	**15**	**20**	**32**	**29**	**49**	**63**	**111**	**135**
Hodgkin Lymphoma	**27**	**0**	**3**	**1**	**3**	**3**	**0**	**1**	**2**	**1**	**2**	**3**	**6**	**2**
Myeloma	**167**	**0**	**0**	**0**	**1**	**0**	**4**	**7**	**10**	**14**	**22**	**41**	**31**	**37**
Leukemia	**467**	**8**	**6**	**4**	**9**	**11**	**17**	**17**	**33**	**41**	**34**	**65**	**103**	**119**
All Other Sites	**1,577**	**4**	**9**	**9**	**23**	**38**	**59**	**94**	**97**	**135**	**155**	**228**	**298**	**427**

* Includes any unknowns.

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER MORTALITY

Number of Cancer Deaths by Age and Primary Site, Black Females
Pennsylvania Residents, 2009

Primary Site	All* Ages	Age Group <15	15-24	25-34	35-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
All Sites	**1,379**	**4**	**5**	**9**	**46**	**64**	**118**	**122**	**147**	**156**	**187**	**170**	**163**	**188**
Oral Cavity and Pharynx	**9**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**2**	**0**	**3**	**0**	**0**	**2**
Esophagus	**12**	**0**	**0**	**0**	**2**	**0**	**1**	**3**	**2**	**0**	**2**	**0**	**2**	**0**
Stomach	**25**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**2**	**3**	**1**	**3**	**2**	**12**
Colon and Rectum	**136**	**0**	**0**	**0**	**3**	**5**	**11**	**11**	**7**	**15**	**19**	**18**	**24**	**23**
Liver and Intrahepatic Bile Duct	**40**	**1**	**0**	**0**	**1**	**0**	**4**	**5**	**7**	**8**	**3**	**6**	**1**	**4**
Pancreas	**102**	**0**	**0**	**1**	**0**	**1**	**7**	**4**	**11**	**5**	**24**	**18**	**14**	**17**
Larynx	**7**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**0**	**3**	**0**	**0**
Lung and Bronchus	**354**	**0**	**0**	**0**	**6**	**14**	**23**	**32**	**49**	**51**	**56**	**45**	**38**	**40**
Melanoma of Skin	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Female Breast	**257**	**0**	**0**	**5**	**14**	**17**	**36**	**31**	**24**	**24**	**23**	**29**	**26**	**28**
Cervix Uteri	**32**	**0**	**0**	**0**	**6**	**4**	**4**	**4**	**4**	**4**	**0**	**4**	**2**	**0**
Corpus/Uterus, NOS	**46**	**0**	**0**	**0**	**0**	**1**	**3**	**1**	**7**	**6**	**8**	**10**	**4**	**6**
Ovary	**43**	**0**	**0**	**1**	**1**	**3**	**3**	**6**	**5**	**3**	**10**	**3**	**5**	**3**
Urinary Bladder	**16**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**1**	**4**	**2**	**7**
Kidney/Renal Pelvis	**17**	**0**	**0**	**0**	**0**	**2**	**0**	**1**	**2**	**2**	**2**	**0**	**4**	**4**
Brain and Other Nervous System	**14**	**1**	**0**	**0**	**0**	**4**	**2**	**2**	**0**	**1**	**1**	**0**	**2**	**1**
Thyroid	**7**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**1**	**4**	**0**	**0**	**0**
Non-Hodgkin Lymphoma	**32**	**0**	**1**	**1**	**4**	**4**	**2**	**1**	**1**	**6**	**3**	**2**	**2**	**5**
Hodgkin Lymphoma	**3**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**
Myeloma	**43**	**0**	**0**	**0**	**1**	**1**	**1**	**5**	**5**	**3**	**5**	**5**	**13**	**4**
Leukemia	**35**	**1**	**3**	**1**	**2**	**2**	**5**	**2**	**2**	**4**	**2**	**4**	**4**	**3**
All Other Sites	**148**	**1**	**0**	**0**	**4**	**5**	**13**	**11**	**15**	**18**	**19**	**15**	**18**	**29**

* Includes any unknowns.

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program.

2009 CANCER MORTALITY

Number of Cancer Deaths by Major Primary Sites, by County, Males
Pennsylvania Residents, 2009

County	All Sites	Lung and Bronchus	Prostate	Colon and Rectum	Pancreas	Leukemia
All Counties	14,680	4,223	1,338	1,410	860	653
Adams	106	30	10	10	12	5
Allegheny	1,573	451	141	150	94	86
Armstrong	98	33	12	4	3	4
Beaver	243	80	14	29	16	9
Bedford	47	16	1	1	2	3
Berks	416	102	40	42	26	27
Blair	193	57	15	23	15	10
Bradford	93	25	10	10	4	3
Bucks	640	152	43	71	46	28
Butler	215	71	10	15	15	12
Cambria	179	50	10	21	16	8
Cameron	9	2	1	0	0	1
Carbon	98	33	6	6	3	2
Centre	109	35	6	7	10	3
Chester	437	121	33	42	24	19
Clarion	57	19	7	5	2	2
Clearfield	107	32	8	13	3	4
Clinton	53	17	4	9	2	3
Columbia	88	33	6	9	4	6
Crawford	121	39	11	13	3	6
Cumberland	204	56	16	14	15	14
Dauphin	270	76	24	21	13	10
Delaware	604	176	52	62	36	26
Elk	49	17	4	3	2	1
Erie	294	87	26	21	24	16
Fayette	209	73	19	24	8	4
Forest	12	5	1	3	0	1
Franklin	193	48	13	23	18	4
Fulton	22	11	2	2	1	0
Greene	43	14	3	6	3	3
Huntingdon	49	16	3	2	3	3
Indiana	94	21	11	9	3	3
Jefferson	51	15	5	8	2	1
Juniata	29	5	4	5	1	0
Lackawanna	279	65	22	29	12	16
Lancaster	534	152	55	55	29	26
Lawrence	147	51	17	6	8	7
Lebanon	164	46	14	16	8	8
Lehigh	369	95	34	36	23	18
Luzerne	454	136	36	42	24	19
Lycoming	145	50	17	10	3	6
McKean	58	15	6	7	3	1
Mercer	171	41	19	16	11	6
Mifflin	52	20	3	5	3	1
Monroe	170	66	15	16	6	7
Montgomery	843	234	101	70	51	37
Montour	20	1	5	1	1	2
Northampton	319	99	19	29	19	16
Northumberland	130	48	9	11	12	5
Perry	58	21	7	5	7	1
Philadelphia	1,656	469	179	169	88	62
Pike	57	15	7	5	2	3
Potter	20	6	3	1	0	0
Schuylkill	191	65	17	21	13	6
Snyder	44	13	5	4	3	2
Somerset	98	18	7	7	11	4
Sullivan	16	6	4	1	2	0
Susquehanna	45	10	6	4	5	2
Tioga	47	10	7	3	5	2
Union	46	12	4	2	2	3
Venango	91	23	9	8	5	5
Warren	73	23	3	9	2	3
Washington	300	90	27	36	12	7
Wayne	73	19	7	9	4	2
Westmoreland	526	151	59	50	27	27
Wyoming	41	13	2	3	1	2
York	438	122	42	41	29	20

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

2009 CANCER MORTALITY

Number of Cancer Deaths by Major Primary Sites, by County, Females
Pennsylvania Residents, 2009

County	All Sites	Lung and Bronchus	Female Breast	Colon and Rectum	Pancreas	Ovary
All Counties	14,000	3,479	2,111	1,339	913	782
Adams	92	22	7	9	8	8
Allegheny	1,587	423	267	142	92	81
Armstrong	99	26	14	11	7	6
Beaver	219	64	27	20	14	12
Bedford	46	12	4	4	1	1
Berks	406	92	56	26	27	18
Blair	168	36	29	20	11	16
Bradford	66	13	9	7	2	5
Bucks	648	153	111	54	50	36
Butler	204	53	28	15	11	10
Cambria	187	57	30	13	8	11
Cameron	3	1	0	1	0	0
Carbon	80	14	14	4	8	11
Centre	80	21	13	7	3	10
Chester	429	96	63	41	36	26
Clarion	36	9	5	4	3	0
Clearfield	98	24	9	20	3	3
Clinton	37	8	3	1	1	3
Columbia	65	15	6	7	3	1
Crawford	104	32	14	11	7	6
Cumberland	232	53	36	24	12	14
Dauphin	223	55	43	25	13	12
Delaware	642	180	103	74	35	34
Elk	44	12	6	2	2	3
Erie	292	77	44	26	14	23
Fayette	181	40	28	27	12	13
Forest	8	4	0	0	2	0
Franklin	164	41	23	13	10	7
Fulton	14	3	2	5	1	0
Greene	41	8	10	7	2	2
Huntingdon	46	10	4	2	2	3
Indiana	79	16	13	9	7	6
Jefferson	65	13	16	7	3	2
Juniata	24	4	5	2	2	1
Lackawanna	280	70	42	29	14	13
Lancaster	492	105	84	49	30	24
Lawrence	121	34	20	11	8	4
Lebanon	146	29	19	22	13	8
Lehigh	362	72	43	30	28	28
Luzerne	405	85	57	38	26	22
Lycoming	129	33	15	13	14	7
McKean	51	14	14	5	3	3
Mercer	158	46	28	11	10	7
Mifflin	55	14	9	2	5	4
Monroe	156	49	21	16	11	4
Montgomery	832	197	108	71	75	62
Montour	24	3	2	3	2	3
Northampton	320	78	42	23	18	18
Northumberland	112	20	14	11	9	6
Perry	43	8	6	9	1	0
Philadelphia	1,713	469	267	174	109	71
Pike	42	8	8	4	1	3
Potter	26	8	4	2	1	2
Schuylkill	208	53	32	20	14	7
Snyder	41	6	5	7	5	4
Somerset	82	16	10	7	6	6
Sullivan	6	0	1	2	0	0
Susquehanna	34	12	5	1	5	2
Tioga	43	9	5	6	2	4
Union	32	9	3	3	2	2
Venango	75	22	10	8	4	8
Warren	49	16	6	5	6	5
Washington	265	74	40	22	6	18
Wayne	62	20	12	5	3	2
Westmoreland	457	103	67	45	36	31
Wyoming	34	6	5	5	3	1
York	436	104	65	40	31	19

Note: Cancer primary site/type groupings follow the definitions used by the National Cancer Institute's SEER program

APPENDIX

Comparability Table of ICD-O-3 and ICD-10 Codes for 23 Primary Cancer Sites

Primary Site	ICD-O-3	ICD-10
Oral Cavity and Pharynx	C00.0-C14.8	C00.0-C14.8
Esophagus	C15.0-C15.9	C15.0-C15.9
Stomach	C16.0-C16.9	C16.0-C16.9
Colon and Rectum	C18.0-C20.9, C26.0	C18.0-C20.9, C26.0
Liver and Intrahepatic Bile Duct	C22.0-C22.1	C22.0-C22.9
Pancreas	C25.0-C25.9	C25.0-C25.9
Larynx	C32.0-C32.9	C32.0-C32.9
Lung and Bronchus	C34.0-C34.9	C34.0-C34.9
Melanoma of the Skin	C44.0-C44.9 and M-8720 to M-8790	C43.0-C43.9
Female Breast	C50.0-C50.9	C50.0-C50.9
Cervix Uteri	C53.0-C53.9	C53.0-C53.9
Corpus and Uterus, NOS	C54.0-C55.9	C54.0-C55.9
Ovary	C56.9	C56
Prostate	C61.9	C61
Testis	C62.0-C62.9	C62.0-C62.9
Urinary Bladder	C67.0-C67.9	C67.0-C67.9
Kidney and Renal Pelvis	C64.9, C65.9	C64, C65
Brain and Other Nervous System	C70.0-C72.9	C70.0-C72.9
Thyroid	C73.9	C73
Non-Hodgkin Lymphoma	M-9590 to M-9596, M-9670 to M-9729, M-9823†, M-9827†	C82.0-C85.9
Hodgkin Lymphoma	M-9650 to M-9667	C81.0-C81.9
Myeloma	M-9731 to M-9732, M-9734	C88.7-C88.9, C90.0, C90.2
Leukemia	M-9733, M-9742, M-9800 to M-9820, M-9823§, M-9826, M-9827§, M-9831 to M-9948, M-9963 to M-9964	C90.1, C91.0-C95.9

† Excludes topography codes C42.0, C42.1, and C42.4. § Includes only topography codes C42.0, C42.1, and C42.4.
NOTES: Sites Oral Cavity to Thyroid, as listed above, exclude sites M-9590 to M-9989 of the ICD-O-3 codes. In this report, only invasive (and in situ urinary bladder) cancer cases are included in the counts of incidence cases and in the calculation of all rates. The abbreviation "NOS" means "Not Otherwise Specified."

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