

United States Cancer Statistics

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- <http://www.cdc.gov/cancer/npcr/uscs/>
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Format and Content of the Report

This report has five major sections:

- Technical Notes
- Cancer Incidence: All Areas Combined
- Cancer Incidence, by U.S. Census Region and Division, State, and Metropolitan Area
- State and Metropolitan Area Incidence Rates for Most Common Cancers
- Appendices

Technical Notes. In this section, we describe the background for the report and provide information about the two federal programs that support cancer registration in the United States and their collaborating partner, the North American Association of Central Cancer Registries. Also provided are (1) criteria required for inclusion of a registry's data in the report and (2) information about the data sources and the statistical methods used in preparing the report. Suggestions for interpreting the data conclude the technical notes.

Statistical tables and figures are the primary focus of the report. The next three sections of the report provide tables and figures.

Cancer Incidence: All Areas Combined. Figure 1 is a map showing all the states and metropolitan areas that contributed data to the report. Tables 1.1 through 1.4 provide cancer incidence rates by sex and race (all races, white, black) for all the contributing areas combined. Tables 1.1 and 1.2 provide crude and age-adjusted incidence rates, by sex and race, for invasive cancers at 66 selected primary sites for males and 70 selected primary sites for females (including *in situ* breast cancer), and for invasive cancers at all sites combined; case counts used in calculating the rates in Tables 1.1 and 1.2 are in Appendix D. Tables 1.3 and 1.4 provide age-specific incidence rates for all cancer sites combined, by sex and race.

Cancer Incidence, by U.S. Census Region and Division, State, and Metropolitan Area. Figure 2 is a map showing the states and metropolitan areas, by U.S. census region and division, that contributed data to the report. Tables 2.1.1 through 2.25.2 show the incidence rates for U.S. census regions and divisions, states, and metropolitan areas by sex and race (all races, white, black), for invasive cancers at each of 23 major primary sites, *in situ* female breast cancer, and invasive cancers at all sites combined. Case counts used in calculating the rates in Tables 2.1.1 through 2.25.2 are in Appendix E.

State and Metropolitan Area Incidence Rates for Most Common Cancers. Figures 3.1 through 3.44 are a set of bar graphs for each of the 44 contributing state or metropolitan area cancer registries. The graphs rank the incidence rates for the 15 cancer sites with the highest age-adjusted incidence rates within sex- and race-specific population subgroups in each state or metropolitan area. The rates are the same as those shown in Tables 2.1.1 through 2.25.2, with the following exception: for populations of less than 50,000, incidence rates were not ranked and therefore are not shown. Case counts used to calculate the rates for these figures are in Appendix E.

Appendices. These supplement information in the report and assist readers in interpreting the data in the statistical tables and figures.

Table 1.1: Invasive Cancer Incidence Rates by Primary Site and Race (All Races, White, Black), United States: SEER and NPCR Registries That Meet Quality Criteria*

Males, 1999



Primary Site	All Races			White			Black		
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
All Sites	552.3 (550.8-553.9)	498.2 (496.9-499.6)		542.0 (540.4-543.6)	519.5 (518.0-521.0)		617.4 (611.6-623.3)	389.4 (385.9-393.0)	
Oral Cavity and Pharynx	15.8 (15.5-16.0)	14.6 (14.4-14.8)		15.2 (15.0-15.5)	14.9 (14.6-15.1)		19.2 (18.3-20.2)	13.6 (12.9-14.2)	
Lip	1.6 (1.5-1.6)	1.4 (1.3-1.5)		1.7 (1.6-1.8)	1.6 (1.5-1.7)		~	~	
Tongue	3.8 (3.7-3.9)	3.5 (3.4-3.7)		3.8 (3.7-3.9)	3.7 (3.6-3.8)		4.0 (3.6-4.5)	2.9 (2.6-3.2)	
Salivary Gland	1.5 (1.4-1.6)	1.4 (1.3-1.4)		1.5 (1.5-1.6)	1.5 (1.4-1.5)		1.2 (0.9-1.4)	0.8 (0.6-1.0)	
Floor of Mouth	1.2 (1.1-1.2)	1.1 (1.0-1.2)		1.1 (1.1-1.2)	1.1 (1.1-1.2)		1.7 (1.4-2.0)	1.2 (1.0-1.4)	
Gum and Other Mouth	2.1 (2.0-2.2)	1.9 (1.8-2.0)		2.0 (1.9-2.1)	1.9 (1.8-2.0)		2.9 (2.5-3.3)	2.0 (1.8-2.3)	
Nasopharynx	0.8 (0.8-0.9)	0.8 (0.8-0.9)		0.6 (0.6-0.7)	0.6 (0.6-0.7)		1.0 (0.8-1.3)	0.8 (0.7-1.0)	
Tonsil	2.1 (2.0-2.2)	2.0 (1.9-2.1)		2.1 (2.0-2.2)	2.1 (2.0-2.2)		2.9 (2.6-3.3)	2.1 (1.8-2.4)	
Oropharynx	0.6 (0.6-0.7)	0.6 (0.5-0.6)		0.6 (0.5-0.6)	0.5 (0.5-0.6)		1.5 (1.2-1.8)	1.0 (0.8-1.2)	
Hypopharynx	1.5 (1.4-1.6)	1.4 (1.3-1.4)		1.3 (1.3-1.4)	1.3 (1.2-1.4)		2.9 (2.5-3.3)	1.9 (1.7-2.2)	
Other Oral Cavity and Pharynx	0.6 (0.5-0.6)	0.5 (0.5-0.6)		0.5 (0.5-0.6)	0.5 (0.5-0.6)		1.1 (0.9-1.4)	0.7 (0.6-0.9)	
Digestive System	112.0 (111.3-112.7)	99.3 (98.7-99.9)		108.9 (108.2-109.6)	102.9 (102.2-103.6)		130.6 (127.9-133.3)	80.3 (78.7-81.9)	
Esophagus	8.8 (8.6-8.9)	7.9 (7.8-8.1)		8.4 (8.2-8.6)	8.1 (7.9-8.3)		13.0 (12.2-13.9)	8.3 (7.8-8.8)	
Stomach	11.0 (10.8-11.3)	9.7 (9.5-9.9)		10.0 (9.8-10.2)	9.4 (9.2-9.6)		17.5 (16.5-18.6)	10.3 (9.7-10.9)	
Colon and Rectum	66.4 (65.9-66.9)	58.6 (58.1-59.0)		66.0 (65.4-66.5)	62.1 (61.6-62.6)		67.9 (65.9-69.9)	41.2 (40.0-42.3)	
Colon excluding Rectum	46.9 (46.4-47.3)	41.0 (40.6-41.4)		46.3 (45.8-46.8)	43.3 (42.8-43.7)		52.0 (50.2-53.7)	31.0 (30.0-32.0)	
Rectum and Rectosigmoid Junction	19.5 (19.2-19.8)	17.6 (17.3-17.8)		19.6 (19.3-20.0)	18.8 (18.5-19.1)		15.9 (15.0-16.9)	10.2 (9.6-10.8)	
Anus, Anal Canal and Anorectum	1.2 (1.1-1.2)	1.1 (1.0-1.1)		1.2 (1.1-1.2)	1.1 (1.0-1.2)		1.3 (1.1-1.6)	1.0 (0.8-1.2)	
Liver and Intrahepatic Bile Duct	7.0 (6.9-7.2)	6.4 (6.3-6.6)		6.1 (5.9-6.3)	5.9 (5.7-6.0)		9.6 (8.9-10.4)	6.5 (6.1-7.0)	
Gallbladder	0.8 (0.7-0.9)	0.7 (0.6-0.7)		0.8 (0.7-0.8)	0.7 (0.7-0.8)		0.9 (0.7-1.2)	0.5 (0.4-0.6)	
Other Biliary	1.6 (1.5-1.6)	1.4 (1.3-1.4)		1.6 (1.5-1.6)	1.4 (1.4-1.5)		1.2 (1.0-1.5)	0.8 (0.6-0.9)	
Pancreas	12.3 (12.0-12.5)	10.9 (10.7-11.1)		12.1 (11.8-12.3)	11.4 (11.2-11.7)		15.2 (14.3-16.2)	9.4 (8.8-9.9)	
Retropertoneum	0.4 (0.4-0.5)	0.4 (0.4-0.4)		0.4 (0.4-0.5)	0.4 (0.4-0.5)		0.4 (0.3-0.6)	0.3 (0.2-0.4)	
Peritoneum, Omentum and Mesentery	0.2 (0.2-0.2)	0.2 (0.2-0.2)		0.2 (0.2-0.2)	0.2 (0.2-0.2)		~	~	
Other Digestive Organs	0.3 (0.3-0.4)	0.3 (0.2-0.3)		0.3 (0.3-0.4)	0.3 (0.3-0.3)		0.3 (0.2-0.5)	0.2 (0.1-0.3)	
Respiratory System	100.0 (99.3-100.6)	90.0 (89.4-90.5)		98.5 (97.8-99.1)	94.5 (93.8-95.1)		125.0 (122.3-127.6)	78.0 (76.5-79.6)	
Nose, Nasal Cavity and Middle Ear	0.8 (0.8-0.9)	0.8 (0.7-0.8)		0.8 (0.8-0.9)	0.8 (0.7-0.9)		1.0 (0.7-1.2)	0.7 (0.5-0.8)	
Larynx	7.9 (7.7-8.1)	7.3 (7.1-7.4)		7.6 (7.4-7.8)	7.4 (7.2-7.6)		12.1 (11.3-12.9)	7.9 (7.4-8.4)	
Lung and Bronchus	89.1 (88.5-89.7)	80.0 (79.5-80.6)		87.8 (87.2-88.5)	84.2 (83.6-84.8)		110.7 (108.3-113.3)	68.7 (67.2-70.2)	
Pleura	1.8 (1.7-1.9)	1.6 (1.5-1.7)		1.9 (1.8-2.0)	1.8 (1.7-1.9)		0.8 (0.6-1.1)	0.5 (0.4-0.6)	
Trachea and Other Respiratory Organs	0.3 (0.3-0.4)	0.3 (0.3-0.3)		0.3 (0.3-0.4)	0.3 (0.3-0.4)		0.4 (0.2-0.5)	0.3 (0.2-0.4)	
Bones and Joints	1.1 (1.0-1.1)	1.0 (1.0-1.1)		1.1 (1.0-1.2)	1.1 (1.0-1.1)		0.8 (0.6-1.0)	0.8 (0.6-1.0)	
Soft Tissue including Heart	3.3 (3.2-3.5)	3.1 (3.0-3.2)		3.3 (3.1-3.4)	3.2 (3.0-3.3)		3.6 (3.2-4.0)	2.8 (2.5-3.1)	
Skin excluding Basal and Squamous	21.5 (21.2-21.8)	19.8 (19.5-20.1)		22.8 (22.5-23.2)	22.1 (21.8-22.4)		4.1 (3.7-4.5)	3.3 (3.0-3.6)	
Melanomas of the Skin	19.0 (18.7-19.3)	17.6 (17.3-17.8)		20.5 (20.2-20.8)	19.9 (19.6-20.2)		1.2 (1.0-1.5)	0.8 (0.6-1.0)	
Other Non-Epithelial Skin	2.5 (2.4-2.6)	2.3 (2.2-2.4)		2.3 (2.2-2.4)	2.2 (2.1-2.3)		2.9 (2.5-3.3)	2.5 (2.2-2.8)	
Breast	1.5 (1.4-1.6)	1.4 (1.3-1.4)		1.5 (1.4-1.5)	1.4 (1.3-1.5)		2.1 (1.8-2.5)	1.3 (1.1-1.5)	
Male Genital System	168.6 (167.7-169.4)	153.1 (152.3-153.8)		159.6 (158.7-160.4)	154.4 (153.6-155.3)		231.6 (228.0-235.2)	142.5 (140.4-144.7)	
Prostate	162.0 (161.2-162.8)	146.5 (145.8-147.2)		152.3 (151.5-153.2)	147.1 (146.3-148.0)		229.3 (225.7-232.9)	140.6 (138.5-142.7)	
Testis	5.6 (5.3-5.9)	5.6 (5.5-5.8)		6.2 (6.0-6.3)	6.3 (6.1-6.5)		1.4 (1.1-1.6)	1.3 (1.1-1.5)	
Penis	0.9 (0.8-0.9)	0.8 (0.7-0.8)		0.8 (0.8-0.9)	0.8 (0.7-0.9)		0.7 (0.5-0.9)	0.4 (0.3-0.6)	
Other Male Genital Organs	0.2 (0.2-0.3)	0.2 (0.2-0.2)		0.2 (0.2-0.2)	0.2 (0.2-0.2)		0.2 (0.1-0.4)	0.2 (0.1-0.3)	

continued

Table 1.1: Invasive Cancer Incidence Rates by Primary Site and Race (All Races, White, Black), United States: SEER and NPCR Registries That Meet Quality Criteria*† (continued)



Males, 1999

Primary Site	All Races			White			Black		
	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	
Urinary System	55.7 (55.2- 56.2)	49.4 (48.9- 49.8)	57.7 (57.2- 58.3)	54.7 (54.2- 55.2)	35.0 (33.6- 36.5)	21.3 (20.5- 22.2)			
Urinary Bladder	38.3 (37.9- 38.7)	33.5 (33.2- 33.9)	40.2 (39.8- 40.7)	37.7 (37.3- 38.1)	17.9 (16.9- 19.0)	10.0 (9.5- 10.6)			
Kidney and Renal Pelvis	16.0 (15.8- 16.3)	14.7 (14.5- 14.9)	16.1 (15.8- 16.4)	15.6 (15.4- 15.9)	16.3 (15.4- 17.3)	10.9 (10.3- 11.5)			
Ureter	0.9 (0.8- 0.9)	0.8 (0.7- 0.8)	0.9 (0.8- 1.0)	0.9 (0.8- 0.9)	0.3 (0.2- 0.4)	0.2 (0.1- 0.2)			
Other Urinary Organs	0.5 (0.4- 0.5)	0.4 (0.4- 0.5)	0.5 (0.4- 0.5)	0.4 (0.4- 0.5)	0.5 (0.3- 0.7)	0.3 (0.2- 0.4)			
Eye and Orbit	0.9 (0.8- 0.9)	0.8 (0.7- 0.9)	0.9 (0.8- 1.0)	0.9 (0.8- 0.9)	0.3 (0.2- 0.4)	0.3 (0.2- 0.4)			
Brain and Other Nervous System	7.9 (7.7- 8.1)	7.5 (7.3- 7.7)	8.3 (8.1- 8.5)	8.2 (8.0- 8.4)	4.5 (4.1- 5.0)	3.8 (3.4- 4.1)			
Brain	7.5 (7.3- 7.6)	7.1 (6.9- 7.3)	7.9 (7.7- 8.1)	7.8 (7.6- 7.9)	4.2 (3.7- 4.6)	3.5 (3.1- 3.8)			
Cranial Nerves and Other Nervous System	0.4 (0.4- 0.5)	0.4 (0.4- 0.4)	0.4 (0.4- 0.5)	0.4 (0.4- 0.5)	0.4 (0.3- 0.6)	0.3 (0.2- 0.4)			
Endocrine System	4.3 (4.2- 4.4)	4.2 (4.1- 4.3)	4.5 (4.3- 4.6)	4.4 (4.3- 4.6)	2.5 (2.2- 2.9)	2.0 (1.7- 2.3)			
Thyroid	3.6 (3.5- 3.7)	3.5 (3.4- 3.6)	3.8 (3.6- 3.9)	3.8 (3.6- 3.9)	1.8 (1.5- 2.1)	1.3 (1.1- 1.5)			
Other Endocrine including Thymus	0.7 (0.6- 0.8)	0.7 (0.6- 0.7)	0.7 (0.6- 0.7)	0.7 (0.6- 0.7)	0.8 (0.6- 1.0)	0.7 (0.5- 0.8)			
Lymphomas	25.1 (24.8- 25.4)	23.2 (22.9- 23.5)	25.4 (25.0- 25.7)	24.5 (24.2- 24.8)	19.6 (18.6- 20.6)	15.0 (14.4- 15.8)			
Hodgkin Lymphoma	3.2 (3.1- 3.3)	3.1 (3.0- 3.2)	3.2 (3.1- 3.4)	3.2 (3.1- 3.4)	2.9 (2.6- 3.2)	2.7 (2.4- 3.0)			
Non-Hodgkin Lymphoma	22.0 (21.7- 22.3)	20.0 (19.7- 20.3)	22.1 (21.8- 22.5)	21.3 (21.0- 21.6)	16.7 (15.8- 17.6)	12.4 (11.7- 13.0)			
Multiple Myeloma	6.0 (5.8- 6.2)	5.3 (5.2- 5.5)	5.6 (5.4- 5.7)	5.3 (5.1- 5.4)	10.8 (10.0- 11.6)	6.6 (6.2- 7.1)			
Leukemias	14.5 (14.3- 14.8)	13.0 (12.8- 13.3)	14.8 (14.5- 15.1)	14.0 (13.8- 14.3)	10.5 (9.8- 11.3)	7.2 (6.7- 7.7)			
Acute Lymphocytic	1.5 (1.5- 1.6)	1.5 (1.5- 1.6)	1.6 (1.5- 1.7)	1.6 (1.5- 1.7)	0.9 (0.7- 1.1)	0.9 (0.8- 1.1)			
Chronic Lymphocytic	4.2 (4.1- 4.3)	3.7 (3.5- 3.8)	4.3 (4.1- 4.4)	4.0 (3.9- 4.1)	3.1 (2.7- 3.5)	1.8 (1.5- 2.0)			
Acute Myeloid	4.4 (4.3- 4.6)	4.0 (3.9- 4.1)	4.5 (4.3- 4.6)	4.3 (4.1- 4.4)	3.3 (2.9- 3.8)	2.3 (2.0- 2.6)			
Chronic Myeloid	1.8 (1.7- 1.9)	1.6 (1.6- 1.7)	1.8 (1.7- 1.9)	1.7 (1.6- 1.8)	1.5 (1.2- 1.8)	1.0 (0.9- 1.2)			
Other Leukemias	2.6 (2.5- 2.7)	2.2 (2.1- 2.3)	2.6 (2.5- 2.7)	2.4 (2.3- 2.5)	1.8 (1.5- 2.1)	1.1 (0.9- 1.3)			
Miscellaneous	14.4 (14.1- 14.6)	12.6 (12.4- 12.8)	14.1 (13.8- 14.3)	13.1 (12.9- 13.4)	17.2 (16.3- 18.3)	10.6 (10.1- 11.2)			

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. Rates cover approximately 78% of the U.S. population.

† Excludes basal and squamous cell carcinomas of the skin except when these occur on the skin of the genital organs, and *in situ* cancers except urinary bladder.

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

¶ Includes invasive and *in situ*.

~ Rates are suppressed if fewer than 16 cases were reported in the specific site-race category.



Table 1.2: Invasive Cancer Incidence Rates by Primary Site and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria[†]

Females, 1999

Primary Site	All Races			White			Black		
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
All Sites	420.1 (418.9-421.2)	457.9 (456.7-459.2)		423.8 (422.5-425.1)	487.4 (486.0-488.9)		381.7 (378.0-385.4)	313.2 (310.2-316.3)	
Oral Cavity and Pharynx	6.3 (6.2- 6.5)	6.9 (6.7- 7.0)		6.2 (6.0- 6.3)	7.1 (7.0- 7.3)		6.3 (5.8- 6.8)	5.3 (4.9- 5.7)	
Lip	0.3 (0.3- 0.4)	0.4 (0.3- 0.4)		0.3 (0.3- 0.4)	0.4 (0.4- 0.5)		~	~	
Tongue	1.6 (1.5- 1.6)	1.7 (1.6- 1.8)		1.5 (1.5- 1.6)	1.8 (1.7- 1.9)		1.2 (1.0- 1.5)	1.0 (0.9- 1.2)	
Salivary Gland	0.9 (0.8- 0.9)	0.9 (0.9- 1.0)		0.9 (0.8- 0.9)	1.0 (0.9- 1.1)		0.8 (0.6- 0.9)	0.6 (0.5- 0.8)	
Floor of Mouth	0.5 (0.4- 0.5)	0.5 (0.5- 0.6)		0.5 (0.4- 0.5)	0.6 (0.5- 0.6)		0.5 (0.4- 0.7)	0.4 (0.3- 0.6)	
Gum and Other Mouth	1.4 (1.3- 1.5)	1.5 (1.5- 1.6)		1.4 (1.3- 1.4)	1.6 (1.5- 1.7)		1.3 (1.1- 1.5)	1.1 (0.9- 1.2)	
Nasopharynx	0.4 (0.3- 0.4)	0.4 (0.3- 0.4)		0.3 (0.2- 0.3)	0.3 (0.3- 0.3)		0.5 (0.4- 0.6)	0.4 (0.3- 0.6)	
Tonsil	0.6 (0.6- 0.6)	0.6 (0.6- 0.7)		0.6 (0.5- 0.6)	0.7 (0.6- 0.7)		0.8 (0.6- 1.0)	0.7 (0.5- 0.8)	
Oropharynx	0.2 (0.2- 0.2)	0.2 (0.2- 0.2)		0.2 (0.2- 0.2)	0.2 (0.2- 0.2)		0.3 (0.2- 0.5)	0.3 (0.2- 0.4)	
Hypopharynx	0.4 (0.3- 0.4)	0.4 (0.3- 0.4)		0.3 (0.3- 0.4)	0.4 (0.4- 0.4)		0.5 (0.4- 0.7)	0.4 (0.3- 0.5)	
Other Oral Cavity and Pharynx	0.2 (0.2- 0.2)	0.2 (0.2- 0.2)		0.2 (0.2- 0.2)	0.2 (0.2- 0.3)		0.3 (0.2- 0.4)	0.2 (0.1- 0.3)	
Digestive System	75.0 (74.5- 75.5)	85.4 (84.9- 86.0)		72.7 (72.2- 73.2)	89.0 (88.4- 89.6)		90.3 (88.5- 92.2)	70.9 (69.4- 72.3)	
Esophagus	2.2 (2.1- 2.2)	2.5 (2.4- 2.5)		2.0 (1.9- 2.1)	2.5 (2.4- 2.6)		3.6 (3.2- 4.0)	2.9 (2.6- 3.2)	
Stomach	5.1 (5.0- 5.2)	5.9 (5.7- 6.0)		4.4 (4.3- 4.6)	5.5 (5.3- 5.7)		9.1 (8.5- 9.7)	7.0 (6.6- 7.5)	
Small Intestine	1.4 (1.3- 1.5)	1.5 (1.5- 1.6)		1.3 (1.3- 1.4)	1.6 (1.5- 1.6)		2.2 (1.9- 2.5)	1.7 (1.5- 2.0)	
Colon and Rectum	48.5 (48.1- 48.9)	55.3 (54.9- 55.7)		47.6 (47.2- 48.0)	58.4 (57.9- 58.9)		54.0 (52.6- 55.4)	42.5 (41.4- 43.6)	
Colon excluding Rectum	36.5 (36.1- 36.8)	41.9 (41.5- 42.3)		35.6 (35.2- 36.0)	44.1 (43.7- 44.6)		43.2 (41.9- 44.5)	33.9 (32.9- 34.9)	
Rectum and Rectosigmoid Junction	12.0 (11.8- 12.2)	13.4 (13.2- 13.6)		12.0 (11.8- 12.2)	14.3 (14.1- 14.5)		10.8 (10.2- 11.4)	8.6 (8.1- 9.1)	
Anus, Anal Canal and Anorectum	1.5 (1.4- 1.5)	1.6 (1.5- 1.7)		1.5 (1.4- 1.6)	1.7 (1.6- 1.8)		1.3 (1.1- 1.5)	1.1 (0.9- 1.3)	
Liver and Intrahepatic Bile Duct	2.8 (2.7- 2.9)	3.2 (3.1- 3.3)		2.5 (2.4- 2.6)	3.1 (2.9- 3.2)		3.5 (3.1- 3.9)	2.8 (2.5- 3.1)	
Gallbladder	1.5 (1.4- 1.6)	1.7 (1.6- 1.8)		1.5 (1.4- 1.5)	1.8 (1.7- 1.9)		1.6 (1.3- 1.9)	1.2 (1.0- 1.4)	
Other Biliary	1.1 (1.1- 1.2)	1.3 (1.2- 1.4)		1.1 (1.0- 1.2)	1.4 (1.3- 1.5)		1.0 (0.8- 1.2)	0.7 (0.6- 0.9)	
Pancreas	9.6 (9.4- 9.7)	11.0 (10.8- 11.2)		9.2 (9.0- 9.4)	11.4 (11.2- 11.6)		13.1 (12.4- 13.8)	10.1 (9.5- 10.6)	
Retropertitoneum	0.4 (0.3- 0.4)	0.4 (0.3- 0.4)		0.4 (0.3- 0.4)	0.4 (0.4- 0.4)		0.4 (0.3- 0.6)	0.4 (0.3- 0.5)	
Peritoneum, Omentum and Mesentery	0.8 (0.7- 0.8)	0.8 (0.8- 0.9)		0.8 (0.8- 0.9)	1.0 (0.9- 1.0)		0.3 (0.2- 0.5)	0.3 (0.2- 0.4)	
Other Digestive Organs	0.3 (0.2- 0.3)	0.3 (0.3- 0.3)		0.3 (0.2- 0.3)	0.3 (0.3- 0.4)		0.2 (0.2- 0.4)	0.2 (0.1- 0.3)	
Respiratory System	56.1 (55.7- 56.5)	62.0 (61.5- 62.5)		57.2 (56.7- 57.6)	67.2 (66.6- 67.7)		53.4 (52.0- 54.8)	42.7 (41.6- 43.8)	
Nose, Nasal Cavity and Middle Ear	0.5 (0.5- 0.6)	0.6 (0.5- 0.6)		0.5 (0.5- 0.6)	0.6 (0.6- 0.7)		0.4 (0.3- 0.6)	0.4 (0.3- 0.5)	
Larynx	1.7 (1.7- 1.8)	1.9 (1.8- 1.9)		1.7 (1.6- 1.8)	1.9 (1.8- 2.0)		2.4 (2.2- 2.8)	2.0 (1.8- 2.3)	
Lung and Bronchus	53.4 (52.9- 53.8)	59.0 (58.6- 59.5)		54.4 (54.0- 54.9)	64.1 (63.5- 64.6)		50.3 (48.9- 51.7)	40.1 (39.0- 41.2)	
Pleura	0.3 (0.3- 0.4)	0.4 (0.3- 0.4)		0.4 (0.3- 0.4)	0.4 (0.4- 0.5)		0.1 (0.1- 0.2)	0.1 (0.1- 0.2)	
Trachea and Other Respiratory Organs	0.1 (0.1- 0.1)	0.1 (0.1- 0.2)		0.1 (0.1- 0.1)	0.1 (0.1- 0.2)		~	~	
Bones and Joints	0.8 (0.7- 0.9)	0.8 (0.8- 0.9)		0.8 (0.8- 0.9)	0.9 (0.8- 0.9)		0.6 (0.5- 0.8)	0.6 (0.5- 0.8)	
Soft Tissue including Heart	2.4 (2.3- 2.5)	2.6 (2.5- 2.7)		2.4 (2.3- 2.5)	2.7 (2.6- 2.8)		2.3 (2.0- 2.6)	2.1 (1.8- 2.3)	
Skin excluding Basal and Squamous	13.2 (13.0- 13.4)	13.9 (13.7- 14.2)		14.4 (14.2- 14.7)	15.6 (15.4- 15.9)		2.0 (1.8- 2.3)	1.8 (1.6- 2.0)	
Melanomas of the Skin	12.1 (11.9- 12.3)	12.7 (12.5- 12.9)		13.4 (13.1- 13.6)	14.4 (14.2- 14.7)		0.9 (0.7- 1.1)	0.7 (0.6- 0.9)	
Other Non-Epithelial Skin	1.1 (1.1- 1.2)	1.2 (1.2- 1.3)		1.1 (1.0- 1.1)	1.2 (1.2- 1.3)		1.2 (1.0- 1.4)	1.1 (0.9- 1.3)	
Breast	134.1 (133.4-134.8)	143.2 (142.5-143.9)		136.3 (135.5-137.0)	152.7 (151.9-153.5)		112.7 (110.7-114.7)	94.9 (93.3-96.6)	
Female Genital System	53.9 (53.5- 54.3)	57.4 (56.9- 57.9)		54.6 (54.1- 55.0)	60.7 (60.2- 61.3)		46.5 (45.3- 47.8)	39.1 (38.1- 40.2)	
Cervix	9.5 (9.3- 9.6)	9.7 (9.5- 9.9)		8.8 (8.6- 9.0)	9.2 (9.0- 9.4)		13.9 (13.2- 14.6)	12.3 (11.8- 13.0)	
Corpus	23.9 (23.6- 24.2)	25.6 (25.3- 25.9)		24.6 (24.3- 25.0)	27.7 (27.4- 28.1)		17.3 (16.5- 18.1)	14.0 (13.4- 14.7)	
Uterus, NOS	0.7 (0.7- 0.8)	0.8 (0.7- 0.9)		0.7 (0.6- 0.7)	0.8 (0.7- 0.8)		1.4 (1.1- 1.6)	1.1 (0.9- 1.3)	
Ovary	16.2 (15.9- 16.4)	17.2 (17.0- 17.5)		16.8 (16.6- 17.1)	18.8 (18.5- 19.1)		10.6 (10.0- 11.3)	8.9 (8.4- 9.4)	
Vagina	0.7 (0.6- 0.7)	0.8 (0.7- 0.8)		0.6 (0.6- 0.7)	0.7 (0.7- 0.8)		1.2 (1.0- 1.4)	1.0 (0.8- 1.1)	
Vulva	2.3 (2.2- 2.4)	2.6 (2.5- 2.7)		2.4 (2.3- 2.5)	2.9 (2.7- 3.0)		1.6 (1.3- 1.8)	1.3 (1.1- 1.5)	
Other Female Genital Organs	0.6 (0.6- 0.7)	0.7 (0.6- 0.7)		0.6 (0.6- 0.7)	0.7 (0.6- 0.8)		0.6 (0.5- 0.8)	0.5 (0.4- 0.7)	

continued

Table 1.2: Invasive Cancer Incidence Rates by Primary Site and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)



Females, 1999

Primary Site	All Races			White			Black		
	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)	Crude Rate† (CI)
Urinary System	19.0 (9.8- 19.3)	21.3 (21.0- 21.5)	19.5 (19.2- 19.7)	23.2 (22.9- 23.5)	16.3 (15.5- 17.1)	13.0 (12.4- 13.6)			
Urinary Bladder¶	10.0 (8.2- 11.8)	11.4 (11.2- 11.6)	10.4 (10.2- 10.6)	12.7 (12.4- 12.9)	7.1 (6.6- 7.7)	5.4 (5.0- 5.8)			
Kidney and Renal Pelvis	8.4 (8.2- 8.5)	9.1 (9.0- 9.3)	8.4 (8.2- 8.6)	9.7 (9.5- 9.9)	8.7 (8.2- 9.3)	7.2 (6.7- 7.7)			
Ureter	0.5 (0.4- 0.5)	0.5 (0.5- 0.6)	0.5 (0.4- 0.5)	0.6 (0.5- 0.6)	0.2 (0.1- 0.3)	0.1 (0.1- 0.2)			
Other Urinary Organs	0.2 (0.1- 0.2)	0.2 (0.2- 0.2)	0.1 (0.1- 0.2)	0.2 (0.2- 0.2)	0.3 (0.2- 0.4)	0.2 (0.2- 0.3)			
Eye and Orbit	0.6 (0.6- 0.7)	0.7 (0.6- 0.7)	0.7 (0.6- 0.7)	0.7 (0.7- 0.8)	0.2 (0.2- 0.3)	0.2 (0.2- 0.3)			
Brain and Other Nervous System	5.7 (5.5- 5.8)	6.0 (5.8- 6.1)	6.0 (5.8- 6.1)	6.5 (6.4- 6.7)	3.6 (3.3- 4.0)	3.2 (2.9- 3.5)			
Brain	5.3 (5.1- 5.4)	5.6 (5.4- 5.7)	5.6 (5.5- 5.8)	6.1 (6.0- 6.3)	3.2 (2.9- 3.6)	2.9 (2.6- 3.2)			
Cranial Nerves and Other Nervous System	0.4 (0.3- 0.4)	0.4 (0.4- 0.4)	0.4 (0.3- 0.4)	0.4 (0.4- 0.5)	0.4 (0.3- 0.5)	0.3 (0.2- 0.4)			
Endocrine System	10.4 (10.2- 10.6)	10.6 (10.4- 10.8)	10.7 (10.5- 10.9)	11.0 (10.8- 11.2)	6.5 (6.0- 7.0)	6.0 (5.6- 6.4)			
Thyroid	9.9 (9.7- 10.1)	10.0 (9.8- 10.2)	10.2 (10.0- 10.4)	10.4 (10.2- 10.7)	5.9 (5.5- 6.4)	5.4 (5.0- 5.8)			
Other Endocrine including Thymus	0.5 (0.5- 0.6)	0.5 (0.5- 0.6)	0.5 (0.5- 0.6)	0.5 (0.5- 0.6)	0.6 (0.5- 0.8)	0.5 (0.4- 0.7)			
Lymphomas	18.3 (18.0- 18.5)	19.9 (19.7- 20.2)	18.8 (18.5- 19.0)	21.6 (21.3- 21.9)	12.7 (12.1- 13.4)	11.1 (10.5- 11.7)			
Hodgkin Lymphoma	2.5 (2.4- 2.6)	2.6 (2.5- 2.7)	2.7 (2.6- 2.8)	2.7 (2.6- 2.8)	1.9 (1.7- 2.2)	1.9 (1.7- 2.2)			
Non-Hodgkin Lymphoma	15.7 (15.5- 16.0)	17.4 (17.1- 17.6)	16.1 (15.8- 16.3)	18.9 (18.6- 19.1)	10.8 (10.2- 11.4)	9.2 (8.7- 9.7)			
Multiple Myeloma	4.1 (4.0- 4.3)	4.6 (4.5- 4.8)	3.7 (3.6- 3.8)	4.5 (4.3- 4.6)	8.2 (7.7- 8.8)	6.4 (6.0- 6.9)			
Leukemias	8.8 (8.6- 8.9)	9.6 (9.5- 9.8)	8.9 (8.7- 9.1)	10.3 (10.1- 10.5)	7.0 (6.5- 7.5)	5.9 (5.5- 6.3)			
Acute Lymphocytic	1.2 (1.1- 1.2)	1.2 (1.1- 1.2)	1.2 (1.2- 1.3)	1.2 (1.1- 1.3)	0.7 (0.6- 0.9)	0.7 (0.6- 0.9)			
Chronic Lymphocytic	2.1 (2.0- 2.2)	2.4 (2.3- 2.5)	2.1 (2.0- 2.2)	2.6 (2.5- 2.7)	1.5 (1.2- 1.7)	1.1 (0.9- 1.3)			
Acute Myeloid	3.1 (3.0- 3.2)	3.4 (3.2- 3.5)	3.1 (3.0- 3.2)	3.6 (3.5- 3.7)	2.6 (2.3- 3.0)	2.2 (2.0- 2.5)			
Chronic Myeloid	1.1 (1.0- 1.1)	1.2 (1.1- 1.3)	1.1 (1.0- 1.1)	1.2 (1.2- 1.3)	1.0 (0.8- 1.2)	0.8 (0.7- 1.0)			
Other Leukemias	1.3 (1.3- 1.4)	1.5 (1.5- 1.6)	1.4 (1.3- 1.4)	1.7 (1.6- 1.8)	1.2 (1.0- 1.4)	1.0 (0.8- 1.1)			
Miscellaneous	11.3 (11.1- 11.5)	13.0 (12.8- 13.3)	11.1 (10.9- 11.3)	13.8 (13.5- 14.0)	12.9 (12.2- 13.6)	10.1 (9.5- 10.6)			
Breast, <i>in situ</i> ¶¶	28.8 (28.5- 29.1)	30.1 (29.8- 30.4)	29.3 (28.9- 29.6)	31.7 (31.4- 32.1)	22.5 (21.6- 23.4)	18.8 (18.1- 19.6)			

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of data are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. Rates cover approximately 78% of the U.S. population.

† Excludes basal and squamous cell carcinomas of the skin except when these occur on the skin of the genital organs, and *in situ* cancers except urinary bladder.

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

¶ Includes invasive and *in situ*.

¶¶ Rates for *in situ* female breast cancer are listed separately and are not included in rates for the "all sites" category.

~ Rates are suppressed if fewer than 16 cases were reported in the specific site-race category.



Table 1.3: All Cancer Sites Combined. Invasive Cancer Incidence Rates by Age and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*†

Males, 1999

Age at Diagnosis (Years)	Age-Specific Rate‡ (CI)		
	All Races	White	Black
<1	26.2 (23.6- 28.9)	27.4 (24.4- 30.5)	17.9 (12.7- 24.6)
1-4	20.2 (19.1- 21.4)	21.2 (19.9- 22.5)	13.1 (10.7- 15.8)
5-9	12.0 (11.3- 12.8)	12.1 (11.3- 13.0)	11.0 (9.2- 13.1)
10-14	12.3 (11.6- 13.1)	12.9 (12.0- 13.8)	9.2 (7.5- 11.1)
15-19	20.7 (19.7- 21.7)	21.0 (19.9- 22.2)	18.4 (16.0- 21.1)
20-24	31.8 (30.5- 33.1)	33.7 (32.2- 35.3)	17.0 (14.5- 19.8)
25-29	48.0 (46.4- 49.6)	50.9 (49.0- 52.8)	28.9 (25.5- 32.6)
30-34	65.4 (63.6- 67.3)	67.2 (65.1- 69.2)	50.6 (46.1- 55.4)
35-39	87.3 (85.4- 89.3)	87.7 (85.5- 89.8)	79.5 (74.1- 85.3)
40-44	143.4 (140.9- 146.0)	140.2 (137.5- 143.0)	160.4 (152.4- 168.8)
45-49	271.5 (267.8- 275.3)	259.6 (255.7- 263.7)	369.0 (355.3- 383.1)
50-54	531.0 (525.3- 536.7)	507.2 (501.1- 513.2)	761.8 (739.0- 785.1)
55-59	975.0 (966.2- 983.9)	938.7 (929.4- 948.0)	1343.1 (1308.2- 1378.8)
60-64	1583.8 (1571.3- 1596.5)	1536.9 (1523.6- 1550.2)	2031.1 (1982.9- 2080.2)
65-69	2327.2 (2311.0- 2343.4)	2294.5 (2277.3- 2311.7)	2509.9 (2453.1- 2567.8)
70-74	2864.5 (2845.6- 2883.5)	2826.5 (2806.6- 2846.4)	2967.5 (2896.7- 3039.5)
75-79	3068.3 (3046.4- 3090.3)	3016.1 (2993.4- 3039.0)	3245.2 (3156.9- 3335.4)
80-84	3152.7 (3124.1- 3181.5)	3107.8 (3078.1- 3137.7)	3188.1 (3067.3- 3312.5)
85+	3065.5 (3031.3- 3099.9)	3049.7 (3014.0- 3085.8)	2866.0 (2735.7- 3000.9)

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. Rates cover approximately 78% of the U.S. population.

† Excludes basal and squamous cell carcinomas of the skin except when these occur on the skin of the genital organs, and *in situ* cancers except urinary bladder.

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

Table 1.4: All Cancer Sites Combined. Invasive Cancer Incidence Rates by Age and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*†



Females, 1999

Age at Diagnosis (Years)	Age-Specific Rate [‡] (CI)		
	All Races	White	Black
<1	19.5 (17.3- 22.0)	19.6 (17.1- 22.3)	15.2 (10.3- 21.5)
1-4	17.9 (16.9- 19.1)	18.7 (17.4- 20.0)	13.6 (11.2- 16.4)
5-9	9.7 (9.0- 10.4)	9.8 (9.0- 10.6)	7.6 (6.1- 9.4)
10-14	12.4 (11.6- 13.2)	12.5 (11.6- 13.5)	11.0 (9.1- 13.1)
15-19	19.0 (18.0- 20.0)	19.6 (18.5- 20.8)	13.9 (11.8- 16.4)
20-24	34.6 (33.3- 36.1)	35.8 (34.2- 37.4)	25.1 (22.0- 28.5)
25-29	63.2 (61.3- 65.0)	65.7 (63.6- 67.9)	47.3 (43.1- 51.8)
30-34	102.4 (100.2- 104.7)	102.9 (100.4- 105.5)	93.5 (87.7- 99.6)
35-39	162.8 (160.2- 165.5)	163.3 (160.4- 166.3)	151.5 (144.4- 158.9)
40-44	265.7 (262.3- 269.1)	264.8 (261.0- 268.5)	252.8 (243.3- 262.6)
45-49	410.9 (406.4- 415.4)	412.0 (407.1- 417.1)	383.1 (370.3- 396.2)
50-54	605.9 (599.9- 611.8)	609.1 (602.6- 615.6)	566.9 (549.3- 585.0)
55-59	833.4 (825.6- 841.3)	846.2 (837.6- 854.8)	737.0 (714.2- 760.3)
60-64	1104.3 (1094.4- 1114.3)	1121.2 (1110.4- 1132.1)	1003.1 (973.9- 1033.0)
65-69	1385.0 (1373.5- 1396.5)	1413.5 (1401.0- 1426.1)	1181.5 (1147.8- 1215.9)
70-74	1677.2 (1664.3- 1690.1)	1694.8 (1681.1- 1708.6)	1527.9 (1485.3- 1571.5)
75-79	1888.2 (1873.7- 1902.9)	1897.3 (1881.9- 1912.8)	1755.1 (1703.1- 1808.2)
80-84	1998.5 (1980.7- 2016.4)	2002.4 (1983.8- 2021.2)	1823.5 (1756.3- 1892.6)
85+	1873.1 (1855.7- 1890.7)	1871.6 (1853.4- 1890.0)	1762.1 (1695.6- 1830.5)

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. Rates cover approximately 78% of the U.S. population.

† Excludes basal and squamous cell carcinomas of the skin except when these occur on the skin of the genital organs, and *in situ* cancers except urinary bladder.

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

Table 2.1.1: All Cancer Sites Combined. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Males, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	552.3 (550.8–553.9)	498.2 (496.9–499.6)		542.0 (540.4–543.6)	519.5 (518.0–521.0)		617.4 (611.6–623.3)	389.4 (385.9–393.0)	
Northeast	573.0 (569.9–576.1)	545.8 (542.9–548.8)		564.9 (561.6–568.2)	574.3 (570.9–577.6)		595.6 (584.5–607.0)	395.1 (388.0–402.3)	
New England	586.4 (579.8–593.0)	548.3 (542.2–554.5)		578.9 (572.3–585.7)	568.7 (562.2–575.3)		615.9 (579.7–654.4)	329.7 (311.5–348.7)	
Connecticut	580.6 (568.6–592.9)	558.8 (547.2–570.5)		570.1 (557.7–582.7)	579.9 (567.4–592.7)		623.0 (568.0–668.1)	362.7 (332.5–394.9)	
Maine									
Massachusetts	588.6 (579.5–597.7)	547.9 (539.5–556.4)		579.7 (570.5–589.1)	570.5 (561.5–579.7)		613.6 (562.5–669.5)	312.0 (287.8–337.7)	
New Hampshire	534.1 (513.8–555.0)	457.2 (440.1–474.7)		533.0 (512.7–554.0)	461.4 (444.1–479.3)		~	~	
Rhode Island	644.7 (621.7–668.4)	628.8 (606.5–651.8)		650.0 (626.4–674.4)	663.8 (639.9–688.4)		654.1 (506.6–844.6)	305.8 (241.3–382.2)	
Vermont									
Middle Atlantic	569.1 (565.6–572.6)	545.1 (541.7–548.5)		560.4 (556.6–564.2)	576.1 (572.3–580.0)		593.6 (581.9–605.5)	404.4 (396.7–412.2)	
New Jersey	606.9 (598.9–615.0)	565.6 (558.2–573.1)		609.0 (600.4–617.7)	615.9 (607.2–624.6)		669.4 (641.9–698.2)	436.3 (419.3–453.8)	
New York	537.9 (532.8–543.0)	495.0 (490.4–499.7)		531.0 (525.5–536.6)	530.2 (524.7–535.7)		517.6 (503.0–532.5)	352.2 (342.8–361.8)	
Pennsylvania	587.4 (581.3–593.7)	607.2 (600.9–613.6)		567.7 (561.4–574.1)	612.1 (605.4–618.9)		718.2 (691.5–745.9)	514.4 (495.6–533.7)	
Midwest									
East North Central	558.8 (552.2–565.4)	479.8 (474.2–485.4)		539.8 (532.9–546.8)	492.4 (486.1–498.7)		631.0 (609.3–653.4)	395.2 (382.1–408.6)	
Illinois									
Indiana									
Michigan	607.8 (600.3–615.4)	534.3 (527.8–540.9)		588.2 (580.3–596.1)	542.7 (535.5–549.9)		713.1 (688.2–738.8)	484.1 (467.5–501.2)	
Detroit	633.1 (621.1–645.3)	560.5 (550.1–571.1)		607.5 (594.3–621.0)	572.7 (560.5–585.2)		736.1 (707.1–766.1)	541.5 (520.4–563.3)	
Ohio	555.4 (548.8–562.1)	509.8 (503.8–515.9)		531.8 (525.0–538.7)	506.1 (499.7–512.5)		623.4 (599.1–648.6)	432.5 (416.2–449.3)	
Wisconsin	540.9 (531.5–550.5)	493.3 (484.8–502.0)		532.7 (523.2–542.4)	508.7 (499.7–517.9)		726.8 (653.8–808.8)	316.7 (288.2–347.3)	
West North Central	548.4 (543.3–553.5)	506.0 (501.4–510.8)		536.2 (531.0–541.4)	514.5 (509.6–519.5)		657.5 (627.1–689.1)	375.3 (358.7–392.6)	
Iowa	554.4 (542.0–566.9)	552.0 (539.8–564.5)		545.1 (532.7–557.6)	554.8 (542.3–567.5)		724.2 (684.6–894.7)	356.3 (291.7–430.9)	
Kansas	553.4 (540.0–567.0)	499.9 (487.8–512.1)		534.1 (520.6–547.8)	501.0 (488.4–513.8)		729.9 (649.2–819.0)	406.7 (363.2–454.0)	
Minnesota	561.5 (551.2–571.9)	487.8 (478.9–496.8)		550.5 (540.2–561.0)	499.6 (490.3–509.1)		609.3 (513.3–725.4)	248.5 (214.4–286.5)	
Missouri	533.4 (524.3–542.7)	497.9 (489.4–506.5)		522.4 (513.0–532.0)	510.3 (501.2–519.6)		647.8 (610.6–687.1)	412.9 (389.8–437.0)	
Nebraska	545.5 (529.0–562.4)	509.0 (493.6–524.7)		525.3 (508.9–542.2)	506.7 (490.9–522.9)		545.2 (438.7–676.7)	304.4 (247.9–369.8)	
North Dakota							~	~	
South Dakota	534.1 (508.6–560.6)	524.9 (499.9–550.8)		534.4 (508.7–561.2)	549.3 (522.8–576.7)				
South									
South Atlantic									
Delaware	568.3 (542.7–595.0)	523.3 (500.1–547.2)		550.8 (523.6–579.4)	554.1 (527.1–582.0)		688.7 (608.7–779.0)	420.9 (374.4–471.5)	
District of Columbia	667.1 (634.0–701.5)	636.9 (605.6–669.3)		453.9 (407.4–506.0)	408.6 (367.8–452.8)		758.7 (714.5–805.3)	759.5 (715.5–805.5)	
Florida	587.5 (582.3–592.7)	688.2 (682.3–694.3)		582.1 (576.7–587.5)	753.3 (746.4–760.2)		627.3 (606.4–648.9)	359.4 (348.3–370.7)	
Georgia									
Atlanta	532.6 (515.7–550.0)	334.7 (324.8–344.7)		479.0 (460.9–497.7)	347.2 (334.8–359.9)		748.1 (701.3–797.9)	316.9 (299.6–334.9)	
Maryland	567.3 (557.0–577.9)	475.2 (466.7–483.8)		542.2 (530.7–553.8)	509.4 (498.8–520.1)		592.3 (567.6–618.2)	364.7 (350.5–379.3)	
North Carolina	499.5 (491.7–507.4)	439.0 (432.3–445.8)		490.0 (481.5–498.7)	468.8 (460.8–476.8)		551.5 (530.7–573.1)	357.9 (344.8–371.4)	
South Carolina	578.3 (566.4–590.5)	508.2 (498.1–518.5)		557.5 (544.3–571.0)	546.2 (533.6–559.0)		642.7 (615.4–671.0)	414.7 (397.7–432.3)	
Virginia									
West Virginia	579.5 (563.7–595.7)	600.0 (583.8–616.5)		570.5 (554.6–586.8)	595.8 (579.4–612.6)		630.8 (529.6–746.3)	510.7 (429.0–603.4)	
East South Central									
Alabama									
Kentucky	599.9 (588.1–612.0)	531.0 (520.7–541.4)		575.2 (563.2–587.3)	521.7 (511.1–532.4)		599.7 (548.9–654.5)	393.2 (360.7–427.8)	
Mississippi									
Tennessee									

continued

Table 2.1.1: All Cancer Sites Combined. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (*continued*)

Males, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)			
West South Central									
Arkansas									
Louisiana	579.6 (568.1–591.3)	480.7 (471.3–490.1)	556.9 (544.0–570.2)	520.4 (508.6–532.5)	670.7 (645.1–697.1)	414.0 (398.6–429.8)			
Oklahoma									
Texas									
West									
Mountain									
Arizona	509.4 (506.5–512.3)	416.7 (414.4–419.0)	507.4 (504.4–510.5)	432.7 (430.1–435.3)	557.6 (542.3–573.3)	340.6 (331.7–349.7)			
Colorado	458.9 (449.8–468.1)	421.6 (413.3–429.9)	465.0 (455.6–474.5)	453.0 (443.9–462.2)	457.9 (390.6–536.5)	238.7 (207.7–273.0)			
Idaho	503.1 (491.8–514.7)	396.4 (387.7–405.1)	505.1 (493.4–517.0)	407.1 (398.0–416.4)	424.6 (366.4–492.3)	257.0 (225.0–292.4)			
Montana	503.6 (484.5–523.3)	428.4 (412.3–444.9)	506.5 (487.2–526.4)	436.8 (420.3–453.7)	~	~			
Nevada	507.2 (485.9–529.2)	495.5 (474.9–516.7)	487.8 (466.6–509.7)	497.9 (476.5–520.1)	~	~			
New Mexico									
Utah	466.6 (450.9–482.7)	402.7 (389.3–416.3)	478.9 (462.4–495.9)	442.2 (427.1–457.6)	345.6 (259.2–457.9)	241.5 (182.9–312.8)			
Wyoming	490.7 (474.3–507.6)	330.9 (320.1–342.1)	496.6 (479.9–513.8)	341.6 (330.3–353.2)	~	~			
Pacific									
Alaska	542.1 (510.5–575.4)	475.7 (448.6–504.0)	543.8 (511.8–577.4)	486.2 (458.2–515.5)	~	~			
California	519.1 (515.7–522.4)	420.2 (417.5–422.9)	516.2 (512.6–519.9)	435.4 (432.4–438.5)	577.4 (560.8–594.4)	356.7 (346.9–366.7)			
San Francisco-Oakland	526.8 (489.5–567.5)	306.2 (287.5–325.9)	501.8 (461.8–545.8)	318.8 (297.0–341.8)	771.0 (484.9–1252.5)	260.9 (179.6–366.4)			
San Jose-Monterey	506.3 (502.4–510.2)	399.0 (395.9–402.0)	500.4 (496.2–504.7)	412.5 (409.1–416.0)	577.2 (559.8–595.1)	365.6 (355.0–376.4)			
Los Angeles	521.1 (510.3–532.0)	457.2 (447.8–466.7)	516.2 (503.6–529.0)	484.9 (473.1–496.8)	554.0 (518.6–591.5)	409.7 (384.3–436.4)			
Hawaii	490.6 (475.8–505.8)	366.3 (355.4–377.4)	480.4 (464.3–497.0)	379.9 (367.3–392.8)	551.1 (440.2–693.6)	229.6 (189.0–276.2)			
Oregon	497.1 (489.5–504.7)	367.8 (362.2–373.3)	490.1 (481.6–498.7)	369.1 (362.8–375.5)	597.5 (571.7–624.4)	433.9 (415.7–452.7)			
Washington	478.0 (460.2–496.3)	463.6 (446.4–481.3)	635.8 (593.2–680.8)	506.0 (472.7–541.1)	297.3 (178.6–478.4)	115.6 (72.4–175.0)			
Seattle-Puget Sound	556.5 (544.8–568.5)	525.2 (514.2–536.5)	551.5 (539.6–563.7)	535.8 (524.3–547.5)	617.8 (499.3–761.7)	338.5 (278.0–408.3)			
	574.9 (565.3–584.6)	486.8 (478.8–495.0)	565.0 (555.1–575.0)	500.7 (492.0–509.5)	592.8 (526.6–667.5)	313.2 (280.4–348.7)			
	590.9 (579.0–603.0)	491.2 (481.4–501.1)	596.6 (584.1–609.3)	523.7 (512.9–534.7)	630.9 (557.2–714.4)	330.4 (294.5–369.5)			

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Excludes basal and squamous cell carcinomas of the skin except when these occur on the skin of the genital organs, and *in situ* cancers except urinary bladder.

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.1.2: All Cancer Sites Combined. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Females, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
United States	420.1 (418.9-421.2)	457.9 (456.7-459.2)		423.8 (422.5-425.1)	487.4 (486.0-488.9)		381.7 (378.0-385.4)	313.2 (310.2-316.3)	
Northeast	438.6 (436.2-441.0)	509.3 (506.6-512.1)		442.3 (439.7-444.9)	543.5 (540.4-546.7)		367.9 (361.0-375.0)	320.8 (314.8-326.9)	
New England	454.3 (449.2-459.4)	518.4 (512.7-524.2)		453.4 (448.1-458.7)	540.2 (534.0-546.4)		361.0 (338.7-384.5)	259.6 (244.0-275.9)	
Connecticut	458.0 (448.4-467.7)	532.3 (521.3-543.4)		457.1 (447.1-467.3)	558.5 (546.5-570.7)		388.6 (354.3-425.6)	306.9 (280.5-335.1)	
Maine									
Massachusetts	451.5 (444.5-458.6)	516.0 (508.1-523.9)		449.6 (442.4-456.9)	539.3 (530.9-547.9)		342.1 (311.2-375.5)	230.7 (210.5-252.3)	
New Hampshire	427.7 (411.5-444.4)	437.1 (420.6-454.0)		424.7 (408.4-441.4)	437.6 (420.9-454.7)		~	~	
Rhode Island	487.0 (469.2-505.4)	584.3 (563.6-605.6)		495.7 (477.3-514.8)	617.1 (594.9-639.9)		400.1 (294.7-540.5)	229.0 (174.3-295.3)	
Vermont									
Middle Atlantic	434.1 (431.4-436.8)	506.6 (503.5-509.7)		438.7 (435.7-441.7)	544.7 (541.0-548.3)		368.7 (361.3-376.1)	329.0 (322.5-335.6)	
New Jersey	450.0 (444.0-456.1)	513.3 (506.5-520.2)		463.3 (456.6-470.0)	568.2 (560.1-576.4)		402.0 (384.8-420.0)	335.0 (320.9-349.6)	
New York	423.9 (419.9-427.8)	479.0 (474.6-483.4)		431.5 (427.1-436.0)	523.8 (518.5-529.1)		332.0 (322.9-341.4)	297.8 (289.7-306.1)	
Pennsylvania	438.5 (433.8-443.3)	544.1 (538.3-549.9)		433.2 (428.2-438.2)	557.7 (551.4-564.0)		436.5 (419.7-453.9)	409.6 (393.9-425.9)	
Midwest									
East North Central	426.2 (421.2-431.2)	455.6 (450.3-460.9)		424.7 (419.3-430.2)	480.4 (474.4-486.5)		415.5 (401.4-430.0)	340.1 (328.7-351.9)	
Illinois									
Indiana	432.6 (427.1-438.3)	459.5 (453.6-465.4)		431.0 (425.1-437.1)	480.0 (473.4-486.7)		432.1 (415.9-448.8)	361.4 (347.9-375.2)	
Michigan	436.1 (427.6-444.7)	472.7 (463.5-482.1)		435.7 (426.0-445.6)	509.3 (498.0-520.8)		439.7 (421.1-458.9)	388.2 (371.8-405.0)	
Detroit	422.8 (417.8-427.9)	472.3 (466.7-477.9)		417.8 (412.5-423.1)	483.3 (477.2-489.4)		390.1 (374.4-406.4)	337.6 (324.1-351.7)	
Ohio	405.3 (398.0-412.8)	443.6 (435.6-451.6)		403.3 (395.8-411.0)	460.1 (451.6-468.7)		449.9 (403.9-500.6)	264.3 (239.2-291.4)	
Wisconsin	413.6 (409.6-417.6)	460.6 (456.3-465.0)		409.5 (405.4-413.6)	471.9 (467.3-476.6)		409.5 (390.0-429.9)	308.1 (293.5-323.2)	
West North Central	417.6 (407.9-427.5)	499.5 (488.1-511.0)		415.3 (405.5-425.3)	506.1 (494.5-517.9)		428.3 (339.2-535.3)	291.3 (231.7-361.6)	
Iowa	416.4 (406.0-427.1)	460.8 (449.4-472.4)		411.6 (400.9-422.5)	470.2 (458.2-482.5)		381.1 (333.0-434.6)	292.2 (255.6-332.5)	
Kansas	422.8 (414.7-430.9)	443.0 (434.7-451.5)		416.4 (408.3-424.7)	454.0 (445.2-462.9)		405.0 (337.0-485.0)	203.9 (172.3-239.6)	
Minnesota	410.6 (403.5-417.8)	461.2 (453.3-469.2)		408.2 (400.7-415.8)	477.7 (469.1-486.4)		421.4 (397.1-446.8)	346.7 (326.9-367.4)	
Missouri	406.0 (393.1-419.2)	456.8 (442.6-471.4)		398.2 (385.2-411.6)	460.4 (445.6-475.5)		321.3 (252.2-405.7)	222.9 (176.2-278.2)	
Nebraska	364.3 (344.5-385.0)	418.9 (396.7-442.0)		365.2 (345.1-386.3)	435.5 (412.1-459.9)		~	~	
North Dakota									
South Dakota									
South									
South Atlantic									
Delaware	457.5 (437.0-478.7)	489.3 (467.5-511.9)		459.3 (436.9-482.7)	534.4 (508.5-561.3)		443.9 (390.0-503.9)	329.7 (290.7-372.4)	
District of Columbia	422.0 (399.7-445.4)	495.6 (469.7-522.5)		392.5 (353.5-436.9)	416.7 (376.3-460.3)		422.5 (395.1-451.9)	525.9 (492.4-561.1)	
Florida	441.6 (437.4-445.8)	577.3 (572.0-582.7)		449.1 (444.6-453.7)	639.7 (633.5-645.9)		377.0 (364.0-390.4)	277.0 (267.7-286.5)	
Georgia									
Atlanta	405.1 (393.3-417.3)	331.4 (321.9-341.2)		392.2 (378.7-406.1)	369.0 (356.4-382.0)		452.1 (425.2-480.6)	266.5 (251.6-282.0)	
Maryland	415.2 (407.6-423.0)	424.9 (417.1-432.9)		423.2 (414.2-432.3)	482.4 (472.2-492.8)		382.7 (366.8-399.2)	300.1 (288.0-312.6)	
North Carolina	374.3 (368.5-380.2)	403.5 (397.2-409.8)		383.1 (376.5-389.8)	443.0 (435.5-450.7)		338.8 (325.9-352.0)	294.5 (283.4-306.0)	
South Carolina	377.8 (369.6-386.2)	401.9 (393.2-410.8)		381.5 (371.9-391.3)	444.6 (433.5-456.0)		358.7 (342.6-375.4)	304.7 (291.1-318.8)	
Virginia									
West Virginia	432.5 (420.4-444.8)	535.9 (521.2-551.0)		429.2 (417.0-441.7)	534.5 (519.5-549.8)		419.2 (351.1-497.8)	470.0 (395.7-554.3)	
East South Central									
Alabama									
Kentucky	430.4 (421.8-439.2)	470.3 (461.0-479.8)		427.3 (418.4-436.3)	476.1 (466.3-486.1)		422.0 (387.4-459.0)	366.3 (336.4-398.1)	
Mississippi									
Tennessee									

continued

Table 2.1.2: All Cancer Sites Combined. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (*continued*)

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas	391.0 (382.9–399.1)	398.5 (390.4–406.8)	396.4 (386.8–406.1)	450.7 (439.9–461.6)	382.1 (366.6–398.1)	309.9 (297.5–322.7)	
Louisiana							
Oklahoma							
Texas							
West							
Mountain							
Arizona	375.0 (367.5–382.6)	396.0 (388.1–404.1)	385.4 (377.5–393.5)	427.5 (418.7–436.3)	260.5 (218.8–308.8)	173.2 (146.5–203.4)	
Colorado	391.6 (383.0–400.4)	382.2 (373.8–390.8)	394.2 (385.3–403.4)	393.7 (384.7–402.7)	311.9 (268.2–361.8)	230.4 (199.5–264.6)	
Idaho	397.1 (381.5–413.2)	393.8 (378.5–409.7)	400.3 (384.6–416.7)	402.0 (386.2–418.3)	~	~	
Montana	385.4 (368.3–403.3)	434.2 (415.1–454.1)	379.3 (361.9–397.5)	444.1 (423.9–464.9)	~	~	
Nevada							
New Mexico	361.4 (349.0–374.3)	359.2 (346.8–371.9)	377.5 (364.2–391.3)	395.9 (381.9–410.3)	157.8 (102.9–233.7)	120.8 (79.6–175.7)	
Utah	349.6 (337.1–362.4)	278.2 (268.3–288.3)	354.2 (341.4–367.4)	286.4 (276.2–297.0)	~	~	
Wyoming	387.8 (363.6–413.5)	401.7 (376.7–428.0)	387.9 (363.4–414.0)	408.7 (382.9–435.8)	~	~	
Pacific							
Alaska	414.8 (412.1–417.6)	409.3 (406.7–412.0)	426.9 (423.9–430.0)	436.6 (433.5–439.7)	381.7 (370.1–393.6)	299.7 (290.7–308.9)	
Alaska	437.5 (407.3–469.9)	308.1 (288.4–328.8)	428.4 (394.3–465.3)	316.3 (293.1–340.8)	255.0 (134.8–498.2)	149.5 (87.1–239.3)	
California	405.3 (402.2–408.4)	392.9 (389.9–395.9)	418.8 (415.3–422.3)	421.7 (418.2–425.2)	382.5 (370.4–394.9)	307.8 (298.1–317.7)	
San Francisco-Oakland	414.1 (405.6–422.7)	447.3 (438.2–456.6)	444.7 (434.1–455.4)	513.2 (501.2–525.5)	366.1 (341.0–392.5)	322.8 (301.0–345.9)	
San Jose-Monterey	398.3 (386.5–410.3)	378.2 (367.0–389.6)	408.8 (395.5–422.4)	408.0 (394.8–421.5)	302.1 (229.6–393.4)	171.3 (133.6–216.5)	
Los Angeles	385.9 (380.1–391.8)	362.0 (356.6–367.5)	403.5 (396.6–410.4)	384.2 (377.8–390.8)	376.7 (359.6–394.3)	336.6 (321.4–352.3)	
Hawaii	392.1 (376.9–407.7)	430.9 (414.3–448.0)	444.0 (410.8–479.5)	443.1 (410.3–477.9)	252.0 (147.1–411.1)	148.2 (92.9–224.4)	
Oregon	442.9 (433.3–452.6)	493.5 (482.9–504.3)	445.3 (435.6–455.3)	509.3 (498.2–520.6)	398.3 (314.7–498.0)	268.3 (212.8–333.9)	
Washington	455.2 (447.5–463.0)	460.6 (452.8–468.5)	455.1 (447.0–463.3)	478.6 (470.2–487.2)	383.2 (334.0–438.7)	245.9 (215.6–279.2)	
Seattle-Puget Sound	466.0 (456.6–475.6)	469.3 (459.8–478.9)	476.7 (466.6–486.9)	502.7 (492.1–513.5)	390.8 (337.4–451.5)	244.8 (212.8–280.1)	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Excludes basal and squamous cell carcinomas of the skin except when these occur on the skin of the genital organs, and *in situ* cancers except urinary bladder.

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.2.1: Cancer of the Oral Cavity and Pharynx. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	15.8 (15.5– 16.0)	14.6 (14.4– 14.8)	15.2 (15.0– 15.5)	14.9 (14.6– 15.1)	19.2 (18.3– 20.2)	13.6 (12.9– 14.2)	
Northeast	15.4 (14.9– 15.9)	14.9 (14.4– 15.4)	14.7 (14.1– 15.2)	15.0 (14.4– 15.5)	17.6 (15.9– 19.6)	12.8 (11.6– 14.2)	
New England	16.0 (15.0– 17.2)	15.2 (14.2– 16.2)	15.6 (14.6– 16.8)	15.5 (14.4– 16.6)	20.8 (15.0– 29.0)	12.3 (9.0– 16.4)	
Connecticut	16.0 (14.1– 18.1)	15.5 (13.6– 17.6)	15.4 (13.4– 17.6)	15.7 (13.7– 17.9)	23.0 (14.5– 37.0)	15.7 (10.0– 23.6)	
Maine							
Massachusetts	16.2 (14.7– 17.8)	15.3 (13.9– 16.8)	15.8 (14.3– 17.4)	15.7 (14.2– 17.3)	19.8 (11.7– 33.7)	10.2 (6.2– 15.7)	
New Hampshire	15.2 (12.0– 19.2)	13.5 (10.7– 16.8)	15.1 (11.9– 19.1)	13.5 (10.7– 16.9)	~	~	
Rhode Island	16.1 (12.6– 20.2)	15.5 (12.2– 19.5)	16.1 (12.6– 20.5)	16.2 (12.7– 20.5)	~	~	
Vermont							
Middle Atlantic	15.2 (14.6– 15.7)	14.8 (14.2– 15.4)	14.3 (13.7– 14.9)	14.8 (14.2– 15.4)	17.3 (15.5– 19.4)	12.9 (11.6– 14.4)	
New Jersey	14.3 (13.1– 15.6)	13.7 (12.6– 14.9)	14.0 (12.8– 15.4)	14.3 (13.0– 15.7)	15.9 (12.3– 20.7)	12.1 (9.4– 15.4)	
New York	15.3 (14.4– 16.2)	14.5 (13.7– 15.3)	14.4 (13.5– 15.3)	14.5 (13.6– 15.5)	15.2 (12.9– 17.8)	11.6 (9.9– 13.4)	
Pennsylvania	15.5 (14.6– 16.6)	16.0 (14.9– 17.0)	14.5 (13.5– 15.6)	15.4 (14.4– 16.5)	23.9 (19.3– 29.5)	17.3 (14.0– 21.2)	
Midwest							
East North Central	16.0 (15.0– 17.1)	14.4 (13.5– 15.4)	15.2 (14.1– 16.4)	14.3 (13.3– 15.4)	21.5 (18.0– 25.8)	15.6 (13.1– 18.4)	
Illinois							
Indiana	15.4 (14.2– 16.6)	14.1 (13.1– 15.2)	14.7 (13.5– 16.0)	14.0 (12.9– 15.2)	21.0 (17.1– 25.6)	15.7 (12.8– 19.1)	
Michigan	16.3 (14.5– 18.4)	15.1 (13.4– 16.9)	14.3 (12.3– 16.5)	13.8 (12.0– 15.9)	25.1 (20.1– 31.1)	19.6 (15.8– 24.1)	
Detroit	13.0 (12.0– 14.1)	12.2 (11.3– 13.2)	12.5 (11.5– 13.6)	12.1 (11.2– 13.2)	15.5 (12.0– 19.9)	11.3 (8.8– 14.2)	
Ohio	17.2 (15.6– 19.0)	16.3 (14.7– 17.9)	16.5 (14.9– 18.2)	16.2 (14.6– 17.9)	43.4 (26.2– 71.6)	18.2 (11.9– 26.7)	
Wisconsin	16.2 (15.3– 17.1)	15.2 (14.4– 16.0)	15.7 (14.9– 16.6)	15.3 (14.4– 16.2)	18.0 (13.6– 23.7)	11.8 (9.0– 15.2)	
West North Central	16.7 (14.6– 19.0)	16.7 (14.6– 18.9)	16.6 (14.5– 18.9)	16.9 (14.7– 19.2)	~	~	
Iowa	16.4 (14.2– 18.9)	15.0 (13.0– 17.3)	15.5 (13.3– 18.0)	14.7 (12.6– 17.0)	~	~	
Kansas	16.9 (15.2– 18.7)	15.1 (13.5– 16.7)	16.6 (14.9– 18.5)	15.5 (13.9– 17.2)	~	~	
Minnesota	15.4 (13.9– 17.1)	14.8 (13.4– 16.3)	14.9 (13.3– 16.6)	14.8 (13.3– 16.5)	18.3 (12.9– 25.9)	13.2 (9.3– 18.1)	
Missouri	15.1 (12.4– 18.1)	14.2 (11.8– 17.1)	14.4 (11.8– 17.4)	14.0 (11.5– 16.9)	~	~	
Nebraska	16.4 (12.2– 21.7)	15.9 (11.8– 20.9)	16.2 (11.9– 21.5)	16.3 (12.0– 21.6)	~	~	
North Dakota							
South Dakota							
South							
South Atlantic							
Delaware	17.5 (13.3– 22.8)	16.6 (12.7– 21.4)	16.1 (11.8– 21.8)	16.4 (12.0– 21.8)	~	~	
District of Columbia	24.5 (18.7– 31.9)	24.6 (18.8– 31.7)	~	~	29.1 (21.1– 39.6)	29.4 (21.3– 39.6)	
Florida	20.0 (19.1– 21.0)	22.3 (21.2– 23.4)	19.7 (18.7– 20.8)	23.9 (22.7– 25.2)	20.3 (16.9– 24.4)	12.7 (10.7– 15.0)	
Georgia							
Atlanta	13.4 (11.1– 16.3)	10.2 (8.5– 12.1)	11.4 (9.0– 14.6)	9.7 (7.7– 12.0)	20.3 (14.1– 29.8)	11.8 (8.7– 15.7)	
Maryland	16.4 (14.8– 18.2)	14.8 (13.3– 16.4)	15.7 (13.8– 17.7)	15.4 (13.6– 17.4)	18.0 (14.3– 22.7)	13.3 (10.7– 16.3)	
North Carolina	16.0 (14.6– 17.5)	14.5 (13.3– 15.7)	14.5 (13.1– 16.1)	14.1 (12.7– 15.5)	22.7 (19.0– 27.2)	16.9 (14.1– 20.0)	
South Carolina	19.9 (17.9– 22.3)	18.6 (16.7– 20.6)	18.6 (16.4– 21.2)	19.2 (16.9– 21.7)	23.7 (19.0– 29.6)	17.1 (13.8– 20.9)	
Virginia							
West Virginia	16.3 (13.8– 19.2)	17.8 (15.1– 20.8)	15.5 (13.1– 18.4)	17.2 (14.5– 20.2)	~	~	
East South Central							
Alabama							
Kentucky	15.4 (13.6– 17.3)	14.5 (12.8– 16.3)	14.5 (12.7– 16.5)	13.9 (12.2– 15.8)	19.7 (12.0– 31.7)	14.6 (8.9– 22.5)	
Mississippi							
Tennessee							

continued

Table 2.2.1: Cancer of the Oral Cavity and Pharynx. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas	20.2 (18.2– 22.4)	17.8 (16.1– 19.7)	19.1 (16.8– 21.7)	18.6 (16.4– 21.0)	24.3 (19.9– 29.5)	17.0 (14.0– 20.4)	
Louisiana							
Oklahoma							
Texas							
West							
Mountain	14.4 (13.9– 14.9)	12.2 (11.8– 12.6)	14.6 (14.0– 15.1)	12.8 (12.3– 13.2)	13.6 (11.3– 16.2)	8.9 (7.5– 10.5)	
Arizona	12.1 (10.7– 13.7)	11.2 (9.9– 12.7)	12.3 (10.9– 14.0)	12.0 (10.6– 13.6)	~	~	
Colorado	11.2 (9.6– 13.1)	9.4 (8.1– 10.8)	11.4 (9.7– 13.3)	9.8 (8.4– 11.3)	~	~	
Idaho	14.5 (11.5– 18.1)	13.0 (10.3– 16.1)	14.5 (11.5– 18.2)	13.2 (10.5– 16.4)	~	~	
Montana	12.4 (9.4– 16.3)	13.0 (9.8– 16.8)	12.4 (9.3– 16.3)	13.5 (10.2– 17.6)	~	~	
Nevada							
New Mexico	14.0 (11.4– 17.0)	12.5 (10.2– 15.1)	14.7 (12.0– 17.9)	13.9 (11.4– 16.9)	~	~	
Utah	10.5 (8.3– 13.3)	7.4 (5.8– 9.2)	10.7 (8.4– 13.6)	7.6 (6.0– 9.5)	~	~	
Wyoming	13.9 (9.2– 20.4)	12.4 (8.4– 17.8)	13.3 (8.7– 19.8)	12.1 (8.0– 17.5)	~	~	
Pacific	15.2 (14.6– 15.8)	12.8 (12.3– 13.3)	15.5 (14.8– 16.1)	13.4 (12.9– 14.0)	14.6 (12.2– 17.6)	9.7 (8.1– 11.4)	
Alaska	17.4 (11.6– 27.1)	12.6 (9.0– 17.1)	12.5 (7.2– 23.1)	10.5 (6.8– 15.4)	~	~	
California	15.3 (14.6– 16.0)	12.5 (12.0– 13.1)	15.6 (14.8– 16.3)	13.1 (12.5– 13.7)	15.4 (12.8– 18.6)	10.5 (8.8– 12.5)	
San Francisco-Oakland	16.3 (14.5– 18.3)	14.9 (13.2– 16.7)	16.4 (14.3– 18.9)	15.8 (13.8– 18.1)	14.2 (9.1– 21.8)	10.6 (6.9– 15.7)	
San Jose-Monterey	14.0 (11.7– 16.8)	11.2 (9.3– 13.2)	13.6 (11.0– 16.6)	11.1 (9.1– 13.5)	~	~	
Los Angeles	13.9 (12.7– 15.2)	10.7 (9.8– 11.7)	14.1 (12.7– 15.6)	10.8 (9.7– 11.9)	16.4 (12.6– 21.3)	13.2 (10.2– 16.8)	
Hawaii	13.7 (10.9– 17.2)	13.6 (10.7– 16.9)	16.8 (10.7– 25.4)	14.8 (9.6– 21.8)	~	~	
Oregon	16.4 (14.5– 18.6)	16.0 (14.1– 18.1)	16.7 (14.7– 18.9)	16.7 (14.7– 18.9)	~	~	
Washington	14.1 (12.7– 15.7)	12.5 (11.2– 13.9)	14.3 (12.8– 15.9)	13.2 (11.9– 14.7)	~	~	
Seattle-Puget Sound	14.5 (12.7– 16.4)	12.8 (11.3– 14.5)	15.2 (13.3– 17.3)	14.1 (12.4– 16.1)	~	~	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.2.2: Cancer of the Oral Cavity and Pharynx. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Females, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	6.3 (6.2– 6.5)	6.9 (6.7– 7.0)		6.2 (6.0– 6.3)	7.1 (7.0– 7.3)		6.3 (5.8– 6.8)	5.3 (4.9– 5.7)	
Northeast	6.3 (6.0– 6.6)	7.3 (7.0– 7.7)		6.1 (5.8– 6.4)	7.6 (7.2– 7.9)		6.2 (5.3– 7.2)	5.5 (4.7– 6.3)	
New England	7.1 (6.5– 7.8)	8.1 (7.4– 8.9)		7.1 (6.4– 8.9)	8.3 (7.6– 9.1)		~	~	
Connecticut	6.6 (5.5– 7.9)	7.9 (6.6– 9.3)		6.6 (5.5– 8.0)	8.2 (6.8– 9.8)		~	~	
Maine									
Massachusetts	7.4 (6.6– 8.4)	8.4 (7.4– 9.5)		7.3 (6.4– 8.3)	8.7 (7.6– 9.8)		~	~	
New Hampshire	6.8 (4.9– 9.3)	6.7 (4.8– 9.1)		6.9 (4.9– 9.4)	6.9 (4.9– 9.3)		~	~	
Rhode Island	7.3 (5.3– 10.0)	8.7 (6.4– 11.7)		7.1 (5.1– 10.0)	8.7 (6.2– 11.8)		~	~	
Vermont									
Middle Atlantic	6.1 (5.7– 6.4)	7.1 (6.7– 7.5)		5.8 (5.5– 6.2)	7.3 (6.9– 7.7)		6.3 (5.4– 7.3)	5.7 (4.9– 6.6)	
New Jersey	7.1 (6.3– 7.9)	8.1 (7.2– 9.0)		6.9 (6.1– 7.8)	8.6 (7.6– 9.6)		7.7 (5.6– 10.5)	6.8 (5.0– 9.2)	
New York	5.7 (5.3– 6.2)	6.4 (5.9– 7.0)		5.5 (5.0– 6.0)	6.7 (6.1– 7.3)		5.4 (4.3– 6.7)	4.8 (3.8– 6.0)	
Pennsylvania	5.9 (5.4– 6.5)	7.5 (6.8– 8.2)		5.5 (5.0– 6.1)	7.3 (6.6– 8.1)		7.4 (5.3– 10.0)	6.9 (5.0– 9.3)	
Midwest									
East North Central	6.5 (5.9– 7.1)	6.8 (6.2– 7.5)		6.3 (5.7– 7.1)	7.0 (6.3– 7.8)		6.8 (5.1– 8.8)	5.8 (4.4– 7.5)	
Illinois									
Indiana	6.6 (5.9– 7.3)	7.0 (6.3– 7.8)		6.5 (5.8– 7.3)	7.2 (6.5– 8.1)		6.2 (4.4– 8.5)	5.2 (3.7– 7.1)	
Michigan	6.8 (5.7– 7.9)	7.3 (6.2– 8.5)		6.7 (5.5– 8.0)	7.9 (6.5– 9.4)		6.1 (4.1– 8.8)	5.5 (3.7– 7.8)	
Detroit	5.9 (5.3– 6.5)	6.6 (6.0– 7.3)		5.8 (5.2– 6.4)	6.7 (6.0– 7.4)		6.1 (4.3– 8.5)	5.4 (3.8– 7.4)	
Ohio	6.2 (5.3– 7.2)	6.7 (5.8– 7.8)		6.2 (5.3– 7.2)	7.0 (6.0– 8.1)		~	~	
Wisconsin	5.6 (5.1– 6.1)	6.3 (5.8– 6.8)		5.5 (5.0– 6.0)	6.4 (5.9– 7.0)		5.4 (3.4– 8.2)	4.2 (2.7– 6.3)	
West North Central	5.0 (4.0– 6.2)	6.1 (4.9– 7.5)		5.0 (4.0– 6.2)	6.2 (5.0– 7.6)		~	~	
Iowa	5.4 (4.3– 6.7)	6.3 (5.0– 7.8)		5.3 (4.2– 6.7)	6.5 (5.1– 8.1)		~	~	
Kansas	6.1 (5.2– 7.2)	6.4 (5.4– 7.4)		5.8 (4.9– 6.9)	6.3 (5.3– 7.4)		~	~	
Minnesota	5.5 (4.7– 6.4)	6.1 (5.2– 7.1)		5.4 (4.6– 6.4)	6.3 (5.4– 7.4)		~	~	
Missouri	6.3 (4.8– 8.2)	7.3 (5.6– 9.3)		6.2 (4.7– 8.1)	7.3 (5.5– 9.4)		~	~	
Nebraska	4.9 (2.9– 8.0)	6.0 (3.6– 9.3)		4.8 (2.8– 7.9)	6.0 (3.6– 9.5)		~	~	
North Dakota									
South Dakota									
South									
South Atlantic									
Delaware	5.8 (3.7– 8.8)	5.9 (3.8– 8.9)		6.5 (4.0– 10.1)	7.0 (4.3– 10.7)		~	~	
District of Columbia	6.4 (3.9– 10.2)	7.6 (4.7– 11.6)		~	~		~	~	
Florida	7.9 (7.4– 8.5)	10.3 (9.6– 11.0)		8.0 (7.4– 8.6)	11.3 (10.5– 12.2)		6.0 (4.5– 7.9)	4.8 (3.6– 6.2)	
Georgia									
Atlanta	6.2 (4.8– 7.9)	4.9 (3.8– 6.2)		6.4 (4.7– 8.4)	5.7 (4.2– 7.5)		5.0 (2.7– 9.0)	3.5 (2.0– 5.8)	
Maryland	6.2 (5.3– 7.2)	6.3 (5.4– 7.3)		5.7 (4.7– 6.9)	6.5 (5.4– 7.9)		6.8 (4.8– 9.3)	5.3 (3.8– 7.2)	
North Carolina	5.9 (5.2– 6.7)	6.4 (5.6– 7.2)		5.8 (5.0– 6.7)	6.8 (5.9– 7.8)		6.3 (4.6– 8.3)	5.5 (4.0– 7.2)	
South Carolina	6.8 (5.7– 8.0)	7.2 (6.1– 8.5)		6.5 (5.3– 7.9)	7.7 (6.3– 9.3)		7.2 (5.1– 9.9)	6.3 (4.5– 8.6)	
Virginia									
West Virginia	5.8 (4.5– 7.4)	7.4 (5.7– 9.3)		5.9 (4.6– 7.6)	7.6 (5.9– 9.6)		~	~	
East South Central									
Alabama									
Kentucky	6.1 (5.1– 7.2)	6.6 (5.6– 7.8)		6.1 (5.1– 7.3)	6.7 (5.6– 8.0)		~	~	
Mississippi									
Tennessee									

continued

Table 2.2.2: Cancer of the Oral Cavity and Pharynx. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Females, 1999

Area	All Races		White		Black	
	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)
West South Central						
Arkansas	7.2 (6.2– 8.4)	7.4 (6.3– 8.6)	7.1 (5.9– 8.5)	8.1 (6.7– 9.7)	7.6 (5.6– 10.2)	6.4 (4.7– 8.4)
Louisiana						
Oklahoma						
Texas						
West						
Mountain						
Arizona	5.7 (4.8– 6.8)	6.1 (5.1– 7.1)	5.9 (5.0– 7.0)	6.5 (5.5– 7.7)	~	~
Colorado	4.5 (3.6– 5.5)	4.4 (3.5– 5.4)	4.3 (3.4– 5.4)	4.3 (3.4– 5.3)	~	~
Idaho	5.2 (3.6– 7.3)	5.3 (3.6– 7.4)	5.3 (3.6– 7.5)	5.4 (3.7– 7.6)	~	~
Montana	6.1 (4.2– 8.8)	7.2 (4.9– 10.2)	6.0 (4.0– 8.8)	7.3 (4.9– 10.4)	~	~
Nevada						
New Mexico	4.4 (3.1– 6.0)	4.4 (3.1– 6.0)	4.7 (3.3– 6.5)	5.0 (3.5– 6.8)	~	~
Utah	4.8 (3.4– 6.5)	3.8 (2.7– 5.2)	4.8 (3.4– 6.6)	3.9 (2.8– 5.3)	~	~
Wyoming	6.4 (3.7– 10.7)	6.7 (3.8– 10.9)	~	~	~	~
Pacific	6.4 (6.1– 6.8)	6.3 (6.0– 6.7)	6.3 (5.9– 6.6)	6.4 (6.1– 6.8)	6.1 (4.7– 7.7)	5.0 (3.9– 6.3)
Alaska	~	~	~	~	~	~
California	6.3 (5.9– 6.7)	6.1 (5.7– 6.5)	6.2 (5.8– 6.6)	6.3 (5.8– 6.7)	6.2 (4.8– 8.0)	5.3 (4.1– 6.7)
San Francisco-Oakland	7.0 (5.9– 8.2)	7.6 (6.4– 8.9)	6.5 (5.3– 8.0)	7.5 (6.1– 9.1)	~	~
San Jose-Monterey	5.0 (3.8– 6.6)	4.8 (3.6– 6.2)	4.6 (3.3– 6.3)	4.7 (3.4– 6.4)	~	~
Los Angeles	5.9 (5.2– 6.6)	5.5 (4.9– 6.2)	5.7 (5.0– 6.6)	5.5 (4.8– 6.3)	6.4 (4.4– 9.1)	6.0 (4.1– 8.4)
Hawaii	8.8 (6.6– 11.4)	9.7 (7.3– 12.5)	12.7 (7.6– 20.2)	12.5 (7.5– 19.5)	~	~
Oregon	6.5 (5.4– 7.8)	7.4 (6.2– 8.8)	6.4 (5.3– 7.7)	7.5 (6.2– 9.0)	~	~
Washington	6.5 (5.6– 7.5)	6.6 (5.7– 7.6)	6.3 (5.3– 7.3)	6.6 (5.6– 7.7)	~	~
Seattle-Puget Sound	6.5 (5.4– 7.7)	6.6 (5.5– 7.8)	6.4 (5.3– 7.7)	6.8 (5.6– 8.2)	~	~

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.5.1: Cancer of the Colon and Rectum. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*,†}

Males, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	66.4 (65.9– 66.9)	58.6 (58.1– 59.0)		66.0 (65.4– 66.5)	62.1 (61.6– 62.6)		67.9 (65.9– 69.9)	41.2 (40.0– 42.3)	
Northeast	72.6 (71.5– 73.7)	67.8 (66.8– 68.9)		72.8 (71.6– 74.0)	73.1 (71.9– 74.3)		63.1 (59.5– 67.0)	40.7 (38.4– 43.0)	
New England	70.2 (67.9– 72.5)	64.4 (62.3– 66.5)		70.1 (67.8– 72.5)	67.9 (65.6– 70.2)		55.0 (44.4– 68.0)	28.9 (23.7– 35.0)	
Connecticut	72.1 (67.9– 76.5)	68.4 (64.4– 72.6)		72.2 (67.9– 76.9)	72.9 (68.5– 77.5)		56.9 (40.8– 78.5)	31.5 (23.0– 42.0)	
Maine									
Massachusetts	70.0 (66.9– 73.3)	63.9 (61.0– 66.8)		69.7 (66.5– 73.0)	67.5 (64.5– 70.7)		56.9 (41.8– 77.4)	29.0 (21.9– 37.5)	
New Hampshire	58.3 (51.6– 65.8)	47.4 (42.0– 53.3)		58.2 (51.4– 65.7)	47.8 (42.3– 53.8)		~	~	
Rhode Island	76.8 (69.0– 85.4)	74.7 (67.1– 82.8)		78.7 (70.6– 87.5)	80.3 (72.1– 89.2)		~	~	
Vermont									
Middle Atlantic	73.3 (72.0– 74.6)	68.9 (67.7– 70.1)		73.7 (72.3– 75.1)	74.8 (73.4– 76.2)		64.0 (60.1– 68.1)	42.3 (39.9– 44.9)	
New Jersey	77.0 (74.2– 80.0)	70.1 (67.5– 72.7)		78.3 (75.2– 81.5)	77.9 (74.8– 81.0)		73.0 (64.0– 83.2)	46.8 (41.3– 52.8)	
New York	70.7 (68.8– 72.6)	63.5 (61.8– 65.1)		71.3 (69.3– 73.4)	70.2 (68.2– 72.2)		55.8 (51.0– 61.1)	36.2 (33.3– 39.4)	
Pennsylvania	74.6 (72.4– 76.8)	76.3 (74.1– 78.6)		73.8 (71.5– 76.2)	79.1 (76.6– 81.5)		76.7 (68.1– 86.3)	54.4 (48.4– 60.9)	
Midwest									
East North Central	71.3 (68.9– 73.7)	59.5 (57.5– 61.5)		70.6 (68.1– 73.2)	62.9 (60.6– 65.1)		72.7 (65.3– 80.9)	43.4 (39.1– 48.0)	
Illinois									
Indiana	62.5 (60.1– 65.1)	53.7 (51.7– 55.8)		61.5 (58.9– 64.1)	55.5 (53.3– 57.9)		71.1 (63.3– 79.7)	46.6 (41.5– 52.1)	
Michigan	64.3 (60.5– 68.4)	55.6 (52.4– 59.0)		62.2 (57.9– 66.7)	57.3 (53.5– 61.4)		74.2 (65.0– 84.3)	53.3 (46.8– 60.4)	
Detroit	70.8 (68.4– 73.2)	63.4 (61.3– 65.6)		69.3 (66.8– 71.8)	64.5 (62.2– 66.8)		69.5 (61.5– 78.5)	47.3 (42.0– 53.1)	
Ohio	70.6 (67.2– 74.2)	63.6 (60.6– 66.8)		69.9 (66.5– 73.5)	66.1 (62.9– 69.4)		69.1 (47.5– 101.0)	28.0 (20.0– 38.2)	
Wisconsin	68.9 (67.1– 70.8)	62.7 (61.1– 64.4)		68.3 (66.4– 70.1)	64.7 (62.9– 66.5)		77.4 (67.1– 89.1)	42.5 (37.0– 48.6)	
West North Central	76.6 (72.1– 81.4)	75.9 (71.4– 80.6)		76.8 (72.2– 81.6)	77.8 (73.2– 82.7)		~	~	
Iowa	67.2 (62.6– 72.1)	60.3 (56.1– 64.6)		65.9 (61.2– 70.9)	61.4 (57.1– 66.0)		85.3 (58.8– 121.0)	44.8 (31.2– 62.3)	
Kansas	63.1 (59.7– 66.7)	53.8 (50.9– 56.8)		62.8 (59.4– 66.5)	56.1 (53.0– 59.3)		~	~	
Minnesota	69.2 (65.9– 72.6)	63.2 (60.2– 66.3)		68.1 (64.7– 71.7)	65.3 (62.0– 68.6)		79.6 (66.9– 94.5)	49.9 (42.1– 58.8)	
Missouri	71.8 (65.8– 78.1)	66.1 (60.7– 71.9)		70.2 (64.2– 76.6)	67.1 (61.4– 73.1)		~	~	
Nebraska	69.1 (60.1– 79.1)	67.6 (58.9– 77.4)		69.1 (60.1– 79.3)	70.9 (61.6– 81.1)		~	~	
North Dakota									
South Dakota									
South									
South Atlantic	66.4 (57.6– 76.5)	58.4 (50.8– 66.8)		62.5 (53.3– 73.2)	60.3 (51.7– 70.0)		96.4 (67.0– 137.5)	55.1 (39.2– 75.3)	
Delaware	66.1 (55.8– 77.9)	61.1 (51.7– 71.7)		50.7 (35.6– 72.2)	42.5 (30.1– 58.4)		75.6 (62.0– 91.6)	74.5 (61.2– 89.9)	
District of Columbia	72.9 (71.1– 74.8)	85.5 (83.4– 87.6)		72.1 (70.2– 74.0)	94.2 (91.7– 96.7)		77.8 (70.4– 85.9)	43.0 (39.2– 47.0)	
Florida									
Georgia									
Atlanta	57.4 (51.7– 63.7)	33.0 (30.0– 36.3)		52.5 (46.4– 59.3)	35.6 (31.7– 39.8)		83.5 (67.3– 103.1)	30.5 (25.3– 36.4)	
Maryland	63.2 (59.7– 66.9)	51.2 (48.5– 54.1)		61.3 (57.4– 65.4)	56.0 (52.5– 59.6)		65.4 (57.1– 74.8)	38.3 (33.8– 43.2)	
North Carolina	53.4 (50.8– 56.1)	45.8 (43.7– 48.0)		52.7 (49.9– 55.6)	49.2 (46.6– 51.8)		57.6 (51.0– 65.1)	36.7 (32.6– 41.2)	
South Carolina	64.3 (60.2– 68.5)	55.0 (51.7– 58.5)		62.2 (57.7– 67.0)	59.4 (55.3– 63.7)		68.2 (59.4– 78.2)	43.4 (38.0– 49.4)	
Virginia									
West Virginia	73.3 (67.6– 79.3)	73.8 (68.2– 79.7)		72.3 (66.6– 78.4)	73.8 (68.1– 79.8)		~	~	
East South Central									
Alabama									
Kentucky	71.4 (67.2– 75.7)	60.8 (57.4– 64.4)		71.0 (66.7– 75.5)	62.0 (58.4– 65.7)		69.7 (52.7– 91.1)	43.0 (32.7– 55.4)	
Mississippi									
Tennessee									

continued

Table 2.5.1: Cancer of the Colon and Rectum. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas	70.5 (66.5– 74.7)	57.1 (53.9– 60.4)	69.1 (64.5– 73.9)	63.4 (59.3– 67.7)	77.3 (68.6– 86.9)	45.7 (40.6– 51.1)	
Louisiana							
Oklahoma							
Texas							
West							
Mountain							
Arizona	57.1 (56.1– 58.1)	45.4 (44.6– 46.2)	56.7 (55.7– 57.8)	47.1 (46.2– 47.9)	60.9 (55.7– 66.4)	35.4 (32.6– 38.4)	
Colorado	54.7 (51.6– 58.0)	49.4 (46.6– 52.3)	55.6 (52.3– 59.0)	53.4 (50.3– 56.6)	56.6 (33.0– 93.8)	26.9 (17.2– 40.0)	
Idaho	54.8 (51.0– 58.9)	41.2 (38.4– 44.1)	54.8 (50.8– 58.9)	42.1 (39.2– 45.2)	39.3 (24.1– 65.3)	26.7 (17.1– 39.7)	
Montana	52.2 (46.1– 58.9)	43.3 (38.3– 48.8)	52.3 (46.1– 59.1)	44.1 (38.9– 49.7)	~	~	
Nevada	63.3 (55.9– 71.6)	60.5 (53.5– 68.3)	59.7 (52.3– 67.9)	59.4 (52.2– 67.4)	~	~	
New Mexico							
Utah	53.5 (48.2– 59.2)	45.5 (41.1– 50.2)	54.9 (49.4– 61.0)	50.2 (45.2– 55.5)	~	~	
Wyoming	50.7 (45.4– 56.4)	32.9 (29.5– 36.5)	51.2 (45.8– 57.0)	33.9 (30.4– 37.7)	~	~	
Pacific	65.9 (55.1– 78.5)	56.4 (47.3– 66.7)	67.1 (56.1– 80.0)	58.7 (49.2– 69.4)	~	~	
Alaska	58.0 (56.8– 59.1)	45.6 (44.7– 46.5)	57.4 (56.2– 58.7)	47.1 (46.1– 48.2)	62.9 (57.4– 68.9)	36.9 (33.8– 40.2)	
California	67.3 (54.0– 84.3)	36.0 (29.8– 43.1)	53.5 (40.6– 71.1)	31.0 (24.5– 38.8)	~	~	
San Francisco-Oakland	57.1 (55.8– 58.4)	43.6 (42.6– 44.6)	56.8 (55.4– 58.3)	45.5 (44.4– 46.7)	64.0 (58.2– 70.5)	38.4 (35.1– 42.1)	
San Jose-Monterey	60.0 (56.3– 63.9)	51.0 (47.9– 54.2)	60.2 (55.9– 64.8)	55.4 (51.5– 59.5)	52.6 (41.6– 66.1)	35.6 (28.4– 44.1)	
Los Angeles	54.1 (49.2– 59.5)	39.1 (35.6– 42.8)	54.4 (49.0– 60.4)	41.2 (37.1– 45.6)	85.4 (44.6– 164.4)	36.9 (21.9– 58.3)	
Hawaii	56.8 (54.2– 59.4)	40.5 (38.7– 42.4)	55.6 (52.7– 58.6)	40.4 (38.4– 42.6)	68.5 (59.7– 78.5)	47.4 (41.5– 53.9)	
Oregon	61.8 (55.5– 68.7)	59.5 (53.4– 66.0)	59.3 (46.8– 74.4)	46.6 (36.9– 58.1)	~	~	
Washington	56.7 (53.0– 60.7)	52.8 (49.3– 56.4)	56.3 (52.5– 60.3)	54.0 (50.3– 57.8)	~	~	
Seattle-Puget Sound	62.1 (58.9– 65.4)	51.1 (48.5– 53.8)	61.5 (58.2– 64.9)	53.1 (50.3– 56.0)	47.9 (31.2– 74.0)	27.4 (18.3– 39.3)	
	61.0 (57.2– 65.1)	49.2 (46.2– 52.4)	61.4 (57.3– 65.6)	52.4 (49.0– 55.9)	52.7 (34.0– 82.6)	30.1 (20.0– 43.5)	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.5.2: Cancer of the Colon and Rectum. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Females, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)	
United States	48.5 (48.1–48.9)	55.3 (54.9–55.7)		47.6 (47.2–48.0)	58.4 (57.9–58.9)		54.0 (52.6–55.4)	42.5 (41.4–43.6)	
Northeast	53.2 (52.4–54.0)	65.9 (64.9–66.9)		52.6 (51.7–53.4)	70.5 (69.4–71.6)		53.2 (50.5–56.0)	44.7 (42.5–47.0)	
New England	52.7 (51.0–54.4)	64.7 (62.7–66.7)		52.1 (50.3–53.8)	67.7 (65.5–69.9)		56.0 (47.2–66.2)	37.3 (31.6–43.8)	
Connecticut	54.2 (51.1–57.5)	68.0 (64.1–72.0)		52.8 (49.6–56.2)	71.1 (66.9–75.5)		68.5 (54.2–85.8)	50.7 (40.4–63.0)	
Maine									
Massachusetts	51.2 (49.0–53.6)	63.1 (60.4–65.9)		50.8 (48.5–53.2)	66.7 (63.7–69.8)		47.3 (35.9–61.5)	29.4 (22.5–37.7)	
New Hampshire	47.4 (42.2–53.2)	50.2 (44.8–56.2)		46.7 (41.5–52.5)	50.0 (44.5–56.0)		~	~	
Rhode Island	61.8 (55.8–68.4)	80.9 (73.3–89.0)		62.3 (56.2–69.1)	85.6 (77.4–94.3)		~	~	
Vermont									
Middle Atlantic	53.3 (52.4–54.3)	66.2 (65.1–67.4)		52.7 (51.7–53.7)	71.4 (70.1–72.7)		52.9 (50.1–55.8)	45.7 (43.3–48.2)	
New Jersey	52.6 (50.6–54.6)	63.1 (60.8–65.6)		52.7 (50.5–54.9)	70.1 (67.3–73.0)		55.9 (49.4–63.1)	44.4 (39.3–49.9)	
New York	53.5 (52.1–54.9)	63.5 (61.9–65.1)		52.7 (51.2–54.2)	69.2 (67.3–71.2)		49.8 (46.2–53.5)	43.1 (40.0–46.3)	
Pennsylvania	53.5 (51.9–55.1)	72.6 (70.5–74.7)		52.7 (51.1–54.4)	75.1 (72.8–77.4)		58.0 (51.9–64.6)	54.2 (48.6–60.4)	
Midwest									
East North Central	50.4 (48.7–52.1)	56.4 (54.6–58.3)		48.9 (47.1–50.7)	59.5 (57.3–61.6)		57.2 (51.9–62.8)	45.3 (41.2–49.7)	
Illinois									
Indiana									
Michigan	47.2 (45.4–49.0)	51.8 (49.9–53.9)		45.8 (43.9–47.7)	53.6 (51.5–55.9)		54.1 (48.5–60.3)	44.6 (40.0–49.7)	
Detroit	47.9 (45.1–50.8)	53.4 (50.3–56.6)		45.4 (42.4–48.6)	56.1 (52.4–60.0)		56.6 (50.0–63.9)	49.4 (43.7–55.6)	
Ohio	50.0 (48.3–51.7)	58.6 (56.7–60.6)		48.3 (46.6–50.1)	59.3 (57.2–61.4)		55.5 (49.6–61.9)	46.9 (41.9–52.3)	
Wisconsin	47.3 (44.8–49.8)	55.1 (52.3–58.0)		46.3 (43.9–48.9)	56.9 (53.9–60.0)		67.7 (49.6–91.1)	34.0 (25.4–44.6)	
West North Central	48.9 (47.6–50.3)	58.5 (56.9–60.1)		48.3 (47.0–49.7)	60.3 (58.7–62.0)		55.1 (47.9–63.0)	39.7 (34.5–45.3)	
Iowa	55.0 (51.7–58.5)	72.6 (68.3–77.1)		55.1 (51.7–58.7)	74.3 (69.9–78.9)		~	~	
Kansas	48.0 (44.6–51.6)	57.0 (53.1–61.2)		46.9 (43.4–50.5)	58.1 (53.9–62.5)		58.6 (40.5–82.5)	43.2 (29.9–60.4)	
Minnesota	45.5 (43.0–48.2)	50.6 (47.8–53.5)		44.6 (42.1–47.3)	52.1 (49.2–55.2)		64.2 (38.0–103.9)	27.7 (16.9–42.8)	
Missouri	48.9 (46.6–51.4)	58.4 (55.6–61.3)		48.3 (45.8–50.8)	60.8 (57.7–63.9)		54.6 (46.0–64.4)	43.8 (36.9–51.6)	
Nebraska	50.7 (46.4–55.4)	61.6 (56.4–67.1)		50.5 (46.0–55.2)	63.3 (57.9–69.1)		~	~	
North Dakota	42.0 (35.7–49.2)	52.5 (44.8–61.1)		41.6 (35.2–48.9)	54.4 (46.3–63.4)		~	~	
South Dakota									
South									
South Atlantic									
Delaware	54.4 (47.6–62.0)	59.7 (52.3–67.9)		51.6 (44.4–59.7)	62.6 (53.9–72.2)		79.9 (57.3–109.1)	54.9 (39.8–74.0)	
District of Columbia	55.3 (47.7–64.2)	68.6 (59.2–79.1)		34.3 (23.8–51.0)	39.7 (28.0–54.8)		66.1 (55.9–78.4)	86.1 (72.9–101.1)	
Florida	53.0 (51.6–54.4)	75.3 (73.4–77.3)		52.1 (50.6–53.5)	82.7 (80.5–85.0)		58.1 (52.9–63.7)	40.1 (36.6–43.8)	
Georgia									
Atlanta	43.5 (39.6–47.7)	33.4 (30.4–36.6)		38.4 (34.2–43.0)	35.1 (31.3–39.2)		65.5 (55.0–77.6)	33.2 (28.1–39.0)	
Maryland	45.6 (43.1–48.2)	47.3 (44.7–49.9)		42.6 (39.9–45.5)	51.9 (48.6–55.4)		50.1 (44.2–56.5)	36.1 (32.0–40.6)	
North Carolina	42.1 (40.2–44.1)	46.6 (44.5–48.7)		41.0 (38.9–43.2)	49.5 (46.9–52.1)		47.5 (42.7–52.6)	40.6 (36.5–44.9)	
South Carolina	44.1 (41.3–47.0)	47.5 (44.5–50.6)		41.2 (38.1–44.4)	49.6 (45.9–53.4)		51.4 (45.4–58.1)	42.6 (37.6–48.1)	
Virginia									
West Virginia	52.2 (48.2–56.5)	68.4 (63.2–73.9)		52.0 (47.9–56.4)	68.6 (63.3–74.2)		61.0 (36.7–96.8)	66.7 (40.7–103.0)	
East South Central									
Alabama									
Kentucky	52.2 (49.3–55.3)	58.6 (55.3–62.0)		51.3 (48.4–54.5)	59.1 (55.6–62.7)		62.6 (49.7–77.9)	54.3 (43.2–67.4)	
Mississippi									
Tennessee									

continued

Table 2.5.2: Cancer of the Colon and Rectum. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas							
Louisiana	47.5 (44.8– 50.4)	49.1 (46.2– 52.0)	46.5 (43.3– 49.9)	54.6 (50.9– 58.5)	50.6 (45.0– 56.8)	39.8 (35.4– 44.5)	
Oklahoma							
Texas							
West							
Mountain							
Arizona	42.5 (41.7– 43.2)	42.7 (41.9– 43.4)	41.8 (41.1– 42.6)	44.3 (43.4– 45.1)	52.7 (48.5– 57.1)	37.8 (34.9– 40.9)	
Colorado	40.0 (37.6– 42.5)	43.7 (41.1– 46.4)	41.0 (38.5– 43.6)	47.6 (44.7– 50.6)	33.6 (19.2– 55.5)	19.8 (11.5– 31.6)	
Idaho	39.4 (36.6– 42.3)	37.5 (34.9– 40.3)	39.0 (36.2– 41.9)	38.3 (35.5– 41.2)	45.3 (29.1– 68.3)	31.1 (20.5– 45.2)	
Montana	38.7 (34.0– 43.9)	39.9 (35.1– 45.2)	38.7 (34.0– 43.9)	40.5 (35.6– 45.9)	~	~	
Nevada	41.9 (36.4– 48.0)	49.1 (42.8– 56.1)	40.0 (34.6– 46.1)	49.2 (42.7– 56.5)	~	~	
New Mexico	32.3 (28.7– 36.3)	32.1 (28.5– 36.1)	34.2 (30.3– 38.5)	36.2 (32.1– 40.8)	~	~	
Utah	35.4 (31.5– 39.7)	27.7 (24.6– 31.0)	35.6 (31.6– 39.9)	28.4 (25.3– 31.9)	~	~	
Wyoming	48.4 (40.1– 58.1)	50.7 (42.1– 60.6)	48.1 (39.8– 57.9)	51.6 (42.7– 61.8)	~	~	
Pacific							
Alaska	43.8 (42.9– 44.7)	44.0 (43.2– 44.9)	43.0 (42.0– 43.9)	45.7 (44.7– 46.7)	54.7 (50.2– 59.5)	40.0 (36.7– 43.4)	
Alaska	49.6 (39.0– 62.5)	29.6 (23.7– 36.5)	38.6 (27.8– 52.8)	22.4 (16.6– 29.7)	~	~	
California	42.9 (41.9– 43.9)	42.4 (41.4– 43.4)	42.3 (41.2– 43.4)	44.3 (43.2– 45.5)	55.2 (50.5– 60.2)	41.7 (38.2– 45.4)	
San Francisco-Oakland	45.9 (43.2– 48.8)	51.3 (48.2– 54.5)	44.8 (41.6– 48.2)	55.5 (51.6– 59.6)	55.4 (45.8– 66.6)	46.7 (38.7– 56.0)	
San Jose-Monterey	38.4 (34.8– 42.3)	36.5 (33.1– 40.2)	38.8 (34.8– 43.1)	39.6 (35.6– 44.0)	~	~	
Los Angeles	42.2 (40.3– 44.1)	40.1 (38.3– 41.9)	40.9 (38.8– 43.2)	40.6 (38.5– 42.7)	52.5 (46.1– 59.4)	45.4 (40.0– 51.4)	
Hawaii	48.0 (42.9– 53.6)	54.0 (48.3– 60.3)	43.5 (33.7– 55.6)	44.1 (34.2– 56.0)	~	~	
Oregon	48.4 (45.3– 51.6)	56.5 (52.9– 60.2)	48.1 (45.0– 51.3)	58.1 (54.4– 62.0)	~	~	
Washington	44.3 (42.0– 46.8)	45.9 (43.4– 48.4)	43.2 (40.8– 45.7)	47.1 (44.5– 49.8)	53.0 (34.6– 78.5)	27.9 (18.4– 40.6)	
Seattle-Puget Sound	45.7 (42.8– 48.7)	46.7 (43.7– 49.8)	45.4 (42.4– 48.6)	49.5 (46.2– 52.9)	59.8 (39.0– 88.9)	31.3 (20.6– 45.6)	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.9.1: Cancer of the Lung and Bronchus. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*†

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	89.1 (88.5– 89.7)	80.0 (79.5– 80.6)	87.8 (87.2– 88.5)	84.2 (83.6– 84.8)	110.7 (108.3– 113.3)	68.7 (67.2– 70.2)	
Northeast	86.8 (85.6– 88.0)	82.7 (81.6– 83.9)	86.0 (84.7– 87.3)	87.9 (86.6– 89.2)	97.2 (92.7– 101.9)	63.1 (60.3– 66.0)	
New England	88.2 (85.7– 90.8)	82.3 (80.0– 84.7)	87.9 (85.3– 90.5)	86.5 (84.0– 89.1)	93.8 (79.9– 110.0)	48.5 (41.7– 56.1)	
Connecticut	84.5 (79.9– 89.2)	81.1 (76.8– 85.7)	83.8 (79.1– 88.7)	85.4 (80.7– 90.4)	95.5 (74.8– 121.5)	55.4 (44.0– 68.9)	
Maine							
Massachusetts	88.1 (84.6– 91.7)	81.9 (78.6– 85.2)	87.7 (84.2– 91.4)	86.5 (83.0– 90.1)	85.7 (67.3– 109.3)	42.2 (33.6– 52.3)	
New Hampshire	83.5 (75.7– 92.1)	70.9 (64.3– 78.0)	83.7 (75.7– 92.3)	71.9 (65.2– 79.2)	~	~	
Rhode Island	105.0 (95.9– 114.8)	103.4 (94.5– 113.0)	105.4 (96.0– 115.4)	108.9 (99.3– 119.2)	~	~	
Vermont							
Middle Atlantic	86.4 (85.1– 87.8)	82.8 (81.5– 84.1)	85.4 (84.0– 86.9)	88.4 (86.9– 89.9)	97.6 (92.9– 102.6)	65.1 (62.1– 68.3)	
New Jersey	86.1 (83.1– 89.2)	80.1 (77.3– 82.9)	85.1 (81.9– 88.4)	86.4 (83.1– 89.7)	107.4 (96.5– 119.4)	69.1 (62.5– 76.3)	
New York	80.7 (78.7– 82.7)	73.9 (72.1– 75.7)	81.8 (79.7– 84.0)	81.9 (79.7– 84.1)	74.1 (68.6– 79.9)	49.7 (46.2– 53.4)	
Pennsylvania	94.2 (91.8– 96.8)	98.3 (95.7– 100.9)	89.9 (87.4– 92.5)	98.2 (95.5– 100.9)	147.2 (135.1– 160.2)	103.2 (94.9– 112.1)	
Midwest							
East North Central	95.8 (93.1– 98.6)	81.7 (79.4– 84.0)	92.4 (89.6– 95.4)	83.9 (81.4– 86.6)	126.3 (116.7– 136.6)	78.3 (72.5– 84.4)	
Illinois							
Indiana							
Michigan	94.6 (91.6– 97.6)	82.7 (80.2– 85.3)	90.9 (87.8– 94.0)	83.5 (80.7– 86.3)	127.6 (117.2– 138.8)	86.3 (79.4– 93.7)	
Detroit	100.5 (95.7– 105.4)	88.6 (84.5– 92.8)	93.5 (88.3– 98.9)	88.0 (83.2– 92.9)	133.4 (121.2– 146.6)	98.0 (89.1– 107.5)	
Ohio	102.5 (99.7– 105.4)	94.3 (91.7– 96.9)	99.7 (96.7– 102.6)	95.3 (92.5– 98.1)	123.3 (112.6– 135.0)	84.2 (77.0– 91.7)	
Wisconsin	83.0 (79.3– 86.7)	75.5 (72.2– 78.9)	81.5 (77.8– 85.3)	77.8 (74.3– 81.5)	135.0 (104.4– 175.4)	57.5 (45.7– 71.3)	
West North Central	88.8 (86.8– 90.9)	82.0 (80.1– 83.9)	86.8 (84.8– 88.9)	83.5 (81.5– 85.5)	134.8 (121.4– 149.5)	77.1 (69.7– 85.1)	
Iowa	88.0 (83.1– 93.0)	88.1 (83.2– 93.1)	87.6 (82.8– 92.8)	89.8 (84.8– 95.0)	148.1 (86.9– 244.5)	67.2 (41.1– 103.8)	
Kansas	91.9 (86.5– 97.5)	82.6 (77.8– 87.7)	90.4 (84.9– 96.2)	84.7 (79.6– 90.1)	131.4 (98.7– 172.9)	72.9 (55.2– 94.5)	
Minnesota	74.4 (70.7– 78.3)	64.3 (61.1– 67.6)	73.2 (69.5– 77.1)	66.2 (62.8– 69.7)	123.5 (85.2– 183.4)	49.7 (35.2– 68.2)	
Missouri	105.2 (101.2– 109.4)	98.5 (94.7– 102.3)	102.4 (98.2– 106.7)	100.5 (96.4– 104.6)	136.0 (119.4– 154.5)	87.7 (77.2– 99.2)	
Nebraska	78.3 (72.1– 84.9)	73.1 (67.4– 79.2)	75.6 (69.5– 82.2)	73.1 (67.2– 79.4)	130.3 (81.9– 206.0)	72.3 (46.3– 107.6)	
North Dakota					~	~	
South Dakota	69.3 (60.4– 79.3)	68.6 (59.7– 78.4)	68.6 (59.7– 78.7)	71.2 (61.9– 81.5)			
South							
South Atlantic							
Delaware	109.9 (98.7– 122.2)	100.4 (90.4– 111.2)	107.8 (96.0– 121.0)	108.4 (96.7– 121.2)	130.9 (96.4– 176.8)	74.9 (56.1– 97.9)	
District of Columbia	111.4 (98.2– 126.2)	105.7 (93.2– 119.5)	63.7 (46.7– 87.0)	53.7 (39.6– 71.2)	134.6 (116.4– 155.2)	134.7 (116.5– 154.8)	
Florida	101.8 (99.6– 103.9)	120.7 (118.2– 123.2)	101.3 (99.1– 103.6)	133.5 (130.6– 136.4)	110.4 (101.7– 119.8)	61.6 (57.1– 66.4)	
Georgia							
Atlanta	89.1 (82.1– 96.7)	51.6 (47.7– 55.6)	80.8 (73.3– 89.1)	54.1 (49.2– 59.2)	123.2 (104.3– 145.4)	50.1 (43.4– 57.6)	
Maryland	92.1 (87.9– 96.5)	75.7 (72.3– 79.2)	90.0 (85.4– 94.9)	83.7 (79.4– 88.1)	104.5 (94.2– 115.9)	62.5 (56.7– 68.7)	
North Carolina	103.2 (99.7– 106.9)	89.8 (86.8– 92.9)	101.9 (98.0– 105.9)	97.1 (93.5– 100.8)	111.8 (102.4– 121.9)	70.6 (64.8– 76.7)	
South Carolina	109.5 (104.4– 114.9)	97.1 (92.7– 101.6)	108.9 (103.2– 115.0)	108.0 (102.4– 113.7)	110.8 (99.8– 122.9)	72.7 (65.7– 80.3)	
Virginia							
West Virginia	126.3 (119.1– 134.0)	133.6 (126.0– 141.5)	126.4 (119.0– 134.1)	134.8 (127.1– 142.9)	96.2 (59.5– 148.0)	77.7 (48.1– 118.8)	
East South Central							
Alabama							
Kentucky	135.6 (130.0– 141.4)	120.7 (115.8– 125.7)	136.6 (130.9– 142.6)	124.7 (119.5– 130.0)	115.9 (94.2– 141.7)	75.7 (61.9– 91.8)	
Mississippi							
Tennessee							

continued

Table 2.9.1: Cancer of the Lung and Bronchus. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas							
Louisiana							
Oklahoma							
Texas							
West							
Mountain							
Arizona							
Colorado							
Idaho							
Montana							
Nevada							
New Mexico							
Utah							
Wyoming							
Pacific							
Alaska							
California							
San Francisco-Oakland							
San Jose-Monterey							
Los Angeles							
Hawaii							
Oregon							
Washington							
Seattle-Puget Sound							

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.9.2: Cancer of the Lung and Bronchus. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*,†}

Females, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate [‡] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [‡] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [‡] (CI)	Crude Rate [†] (CI)	
United States	53.4 (52.9– 53.8)	59.0 (58.6– 59.5)		54.4 (54.0– 54.9)	64.1 (63.5– 64.6)		50.3 (48.9– 51.7)	40.1 (39.0– 41.2)	
Northeast	53.7 (52.9– 54.6)	63.7 (62.8– 64.7)		54.8 (53.9– 55.7)	69.4 (68.3– 70.5)		45.8 (43.3– 48.3)	39.3 (37.2– 41.5)	
New England	58.3 (56.5– 60.2)	67.3 (65.3– 69.4)		58.7 (56.8– 60.6)	71.0 (68.8– 73.3)		49.3 (41.1– 58.7)	33.6 (28.1– 39.8)	
Connecticut	54.3 (51.0– 57.7)	63.9 (60.1– 67.8)		54.7 (51.4– 58.3)	68.2 (64.1– 72.5)		50.2 (38.3– 65.1)	38.4 (29.4– 49.2)	
Maine									
Massachusetts	59.0 (56.5– 61.6)	68.4 (65.5– 71.3)		59.0 (56.5– 61.7)	72.1 (69.1– 75.3)		51.3 (39.4– 66.0)	31.8 (24.6– 40.4)	
New Hampshire	61.0 (54.9– 67.6)	61.6 (55.5– 68.1)		61.0 (54.9– 67.6)	62.1 (55.9– 68.8)		~	~	
Rhode Island	65.2 (58.9– 72.1)	78.9 (71.4– 87.0)		66.6 (60.0– 73.8)	84.1 (76.0– 92.8)		~	~	
Vermont									
Middle Atlantic	52.4 (51.5– 53.4)	62.6 (61.6– 63.8)		53.6 (52.6– 54.6)	68.8 (67.5– 70.1)		45.4 (42.9– 48.1)	40.1 (37.8– 42.4)	
New Jersey	55.5 (53.4– 57.6)	64.5 (62.1– 67.0)		57.2 (54.9– 59.6)	72.6 (69.7– 75.5)		51.5 (45.4– 58.3)	42.0 (37.1– 47.4)	
New York	51.5 (50.1– 52.9)	59.2 (57.6– 60.7)		54.4 (52.8– 56.0)	67.8 (65.9– 69.8)		36.6 (33.6– 39.8)	32.3 (29.7– 35.1)	
Pennsylvania	51.9 (50.3– 53.5)	66.7 (64.7– 68.7)		50.6 (49.0– 52.3)	67.8 (65.7– 70.1)		63.7 (57.3– 70.5)	59.7 (53.8– 66.1)	
Midwest									
East North Central									
Illinois	54.8 (53.0– 56.6)	58.8 (56.9– 60.8)		54.0 (52.1– 56.0)	62.0 (59.8– 64.2)		62.0 (56.5– 67.8)	49.9 (45.5– 54.5)	
Indiana									
Michigan	57.4 (55.4– 59.5)	61.2 (59.1– 63.4)		56.5 (54.3– 58.7)	63.5 (61.1– 66.0)		66.8 (60.5– 73.7)	54.5 (49.3– 60.0)	
Detroit	59.6 (56.5– 62.8)	65.3 (61.9– 68.9)		59.0 (55.5– 62.7)	70.5 (66.4– 74.9)		63.8 (56.8– 71.5)	55.1 (49.0– 61.6)	
Ohio	56.1 (54.3– 58.0)	63.9 (61.8– 66.0)		55.3 (53.5– 57.3)	65.5 (63.3– 67.8)		60.8 (54.7– 67.5)	52.3 (47.0– 58.0)	
Wisconsin	46.9 (44.4– 49.5)	51.2 (48.5– 54.0)		46.3 (43.8– 49.0)	53.0 (50.2– 56.0)		65.0 (48.1– 87.0)	36.0 (27.1– 46.8)	
West North Central	50.6 (49.3– 52.0)	56.7 (55.1– 58.2)		50.0 (48.6– 51.5)	58.1 (56.5– 59.8)		61.8 (54.2– 70.1)	44.8 (39.4– 50.8)	
Iowa	46.2 (43.0– 49.5)	56.1 (52.4– 60.1)		46.1 (42.9– 49.4)	57.0 (53.2– 61.1)		~	~	
Kansas	52.8 (49.1– 56.7)	58.4 (54.4– 62.6)		53.3 (49.5– 57.4)	61.1 (56.8– 65.6)		48.1 (31.9– 69.9)	35.6 (23.6– 51.4)	
Minnesota	45.8 (43.2– 48.6)	47.4 (44.7– 50.2)		45.0 (42.4– 47.8)	48.7 (45.8– 51.6)		87.4 (57.1– 130.6)	40.2 (26.9– 57.8)	
Missouri	59.2 (56.6– 62.0)	67.2 (64.2– 70.3)		58.9 (56.1– 61.8)	69.9 (66.6– 73.3)		61.9 (52.8– 72.2)	49.9 (42.5– 58.1)	
Nebraska	44.4 (40.2– 48.8)	51.3 (46.6– 56.3)		43.1 (39.0– 47.6)	51.5 (46.6– 56.7)		~	~	
North Dakota	37.2 (31.1– 44.2)	43.1 (36.1– 50.9)		36.8 (30.7– 44.0)	44.3 (37.1– 52.5)		~	~	
South Dakota									
South									
South Atlantic									
Delaware	65.8 (58.2– 74.1)	70.8 (62.7– 79.7)		66.0 (57.7– 75.2)	78.3 (68.6– 89.0)		65.4 (45.5– 91.8)	46.0 (32.2– 63.7)	
District of Columbia	50.8 (43.3– 59.4)	60.6 (51.8– 70.5)		39.6 (27.9– 51.5)	41.9 (29.8– 57.3)		55.4 (46.0– 66.8)	71.8 (59.7– 85.5)	
Florida	62.9 (61.4– 64.5)	87.0 (84.9– 89.1)		65.5 (63.8– 67.2)	99.8 (97.3– 102.2)		39.1 (34.9– 43.6)	28.0 (25.1– 31.2)	
Georgia									
Atlanta	55.1 (50.6– 59.8)	41.4 (38.0– 44.9)		55.6 (50.5– 61.2)	49.6 (45.0– 54.5)		52.7 (43.6– 63.4)	27.9 (23.2– 33.2)	
Maryland	57.0 (54.1– 59.9)	58.0 (55.2– 61.0)		58.7 (55.4– 62.2)	68.3 (64.5– 72.2)		55.2 (49.1– 61.9)	40.0 (35.7– 44.8)	
North Carolina	51.0 (48.9– 53.2)	56.1 (53.8– 58.5)		53.8 (51.4– 56.3)	64.4 (61.5– 67.4)		38.3 (34.0– 43.0)	32.3 (28.7– 36.2)	
South Carolina	46.2 (43.4– 49.2)	49.9 (46.9– 53.1)		50.4 (47.0– 54.0)	60.7 (56.7– 65.0)		32.9 (28.1– 38.3)	27.1 (23.1– 31.5)	
Virginia									
West Virginia	67.5 (63.0– 72.4)	87.3 (81.4– 93.5)		67.0 (62.3– 71.9)	87.0 (81.0– 93.3)		82.5 (54.2– 121.8)	93.3 (62.0– 134.9)	
East South Central									
Alabama									
Kentucky	70.4 (67.0– 74.0)	77.6 (73.8– 81.5)		69.8 (66.3– 73.5)	78.7 (74.7– 82.8)		82.2 (67.2– 99.6)	70.2 (57.5– 84.9)	
Mississippi									
Tennessee									

continued

Table 2.9.2: Cancer of the Lung and Bronchus. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas							
Louisiana							
Oklahoma							
Texas							
West							
Mountain							
Arizona							
Colorado							
Idaho							
Montana							
Nevada							
New Mexico							
Utah							
Wyoming							
Pacific							
Alaska							
California							
San Francisco-Oakland							
San Jose-Monterey							
Los Angeles							
Hawaii							
Oregon							
Washington							
Seattle-Puget Sound							

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.10.1: Melanomas of the Skin. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Males, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)		Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)	
United States	19.0 (18.7– 19.3)	17.6 (17.3– 17.8)		20.5 (20.2– 20.8)	19.9 (19.6– 20.2)		1.2 (1.0– 1.2)	0.8 (0.6– 1.0)	
Northeast	16.7 (16.2– 17.2)	16.1 (15.6– 16.7)		18.3 (17.7– 18.9)	18.7 (18.1– 19.3)		~	~	
New England	22.3 (21.0– 23.6)	21.4 (20.2– 22.6)		22.9 (21.6– 24.2)	22.8 (21.5– 24.2)		~	~	
Connecticut	25.6 (23.1– 28.2)	25.1 (22.7– 27.7)		26.2 (23.6– 29.0)	26.8 (24.2– 29.7)		~	~	
Maine									
Massachusetts	19.7 (18.1– 21.4)	18.9 (17.4– 20.6)		20.2 (18.6– 22.0)	20.4 (18.7– 22.2)		~	~	
New Hampshire	23.2 (19.2– 28.0)	20.8 (17.3– 24.8)		23.6 (19.5– 28.4)	21.3 (17.7– 25.4)		~	~	
Rhode Island	25.6 (21.2– 30.8)	24.8 (20.5– 29.6)		26.8 (22.1– 32.2)	27.0 (22.3– 32.3)		~	~	
Vermont									
Middle Atlantic	15.0 (14.5– 15.6)	14.6 (14.0– 15.1)		16.8 (16.1– 17.5)	17.2 (16.6– 17.9)		~	~	
New Jersey	19.1 (17.7– 20.6)	18.2 (16.9– 19.6)		22.3 (20.7– 24.0)	22.8 (21.2– 24.5)		~	~	
New York	11.8 (11.1– 12.6)	11.1 (10.4– 11.8)		13.8 (12.9– 14.7)	13.9 (13.0– 14.8)		~	~	
Pennsylvania	17.0 (15.9– 18.1)	17.3 (16.2– 18.4)		17.3 (16.2– 18.5)	18.3 (17.1– 19.5)		~	~	
Midwest									
East North Central	14.9 (13.9– 16.0)	13.4 (12.5– 14.3)		16.3 (15.1– 17.5)	15.4 (14.3– 16.5)		~	~	
Illinois									
Indiana	22.3 (20.9– 23.7)	20.2 (18.9– 21.5)		23.5 (22.0– 25.1)	22.3 (20.9– 23.8)		~	~	
Michigan	20.6 (18.5– 22.9)	18.6 (16.7– 20.6)		25.2 (22.6– 28.1)	24.3 (21.8– 26.9)		~	~	
Detroit	16.6 (15.4– 17.7)	15.5 (14.5– 16.6)		16.4 (15.2– 17.6)	15.9 (14.8– 17.1)		~	~	
Ohio	13.0 (11.6– 14.5)	12.3 (11.0– 13.7)		13.4 (12.0– 15.0)	13.2 (11.7– 14.7)		~	~	
Wisconsin	17.1 (16.2– 18.0)	16.0 (15.2– 16.9)		16.6 (15.8– 17.6)	16.1 (15.3– 17.0)		~	~	
West North Central	20.1 (17.8– 22.6)	19.9 (17.6– 22.3)		18.9 (16.7– 21.4)	19.1 (16.8– 21.6)		~	~	
Iowa	21.8 (19.2– 24.6)	20.0 (17.6– 22.6)		20.3 (17.8– 23.2)	19.2 (16.8– 21.8)		~	~	
Kansas	19.7 (17.8– 21.7)	18.0 (16.4– 19.8)		19.4 (17.6– 21.4)	18.4 (16.7– 20.3)		~	~	
Minnesota	12.4 (11.0– 13.8)	11.7 (10.4– 13.0)		13.3 (11.8– 14.9)	13.0 (11.6– 14.6)		~	~	
Missouri	14.6 (12.0– 17.6)	13.9 (11.4– 16.7)		11.4 (9.1– 14.2)	11.0 (8.8– 13.6)		~	~	
Nebraska	10.5 (7.2– 14.9)	10.5 (7.2– 14.7)		10.8 (7.4– 15.3)	11.2 (7.7– 15.7)		~	~	
North Dakota									
South Dakota									
South									
South Atlantic	16.0 (12.0– 21.2)	15.0 (11.3– 19.5)		18.1 (13.5– 24.1)	18.5 (13.8– 24.2)		~	~	
Delaware	10.8 (7.1– 16.0)	11.1 (7.3– 16.1)		19.8 (11.4– 34.9)	19.0 (11.1– 30.5)		~	~	
District of Columbia	21.9 (20.8– 22.9)	24.6 (23.5– 25.8)		23.2 (22.1– 24.4)	28.3 (27.0– 29.7)		~	~	
Florida									
Georgia	21.8 (18.6– 25.5)	15.6 (13.5– 17.9)		26.0 (22.1– 30.5)	21.5 (18.5– 24.9)		~	~	
Atlanta	22.1 (20.1– 24.2)	19.3 (17.6– 21.1)		28.4 (25.8– 31.1)	27.4 (25.0– 30.0)		~	~	
Maryland	17.1 (15.7– 18.6)	15.5 (14.2– 16.8)		20.7 (19.0– 22.5)	20.1 (18.5– 21.8)		~	~	
North Carolina	21.7 (19.5– 24.2)	19.6 (17.7– 21.7)		27.5 (24.7– 30.7)	27.3 (24.6– 30.3)		~	~	
South Carolina									
Virginia	19.2 (16.4– 22.3)	20.0 (17.1– 23.2)		17.5 (14.9– 20.6)	18.6 (15.8– 21.8)		~	~	
West Virginia									
East South Central	22.4 (20.3– 24.8)	21.0 (19.0– 23.1)		22.2 (19.9– 24.6)	21.0 (18.9– 23.3)		~	~	
Alabama									
Kentucky									
Mississippi									
Tennessee									

continued

Table 2.10.1: Melanomas of the Skin. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Males, 1999

Area	All Races		White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)
West South Central						
Arkansas	12.1 (10.5– 13.9)	10.2 (8.9– 11.6)	15.2 (13.1– 17.5)	14.4 (12.4– 16.5)	~	~
Louisiana						
Oklahoma						
Texas						
West						
Mountain	22.1 (21.5– 22.7)	19.0 (18.5– 19.5)	24.1 (23.5– 24.8)	21.4 (20.9– 22.0)	~	~
Arizona	20.1 (18.2– 22.1)	18.4 (16.7– 20.2)	20.9 (19.0– 23.1)	20.1 (18.2– 22.1)	~	~
Colorado	24.4 (22.0– 27.0)	21.1 (19.1– 23.2)	25.7 (23.2– 28.4)	22.7 (20.6– 25.0)	~	~
Idaho	24.0 (20.1– 28.6)	21.4 (18.0– 25.4)	24.5 (20.5– 29.2)	22.1 (18.5– 26.2)	~	~
Montana	13.3 (10.0– 17.4)	12.7 (9.6– 16.6)	11.8 (8.7– 15.9)	11.8 (8.7– 15.6)	~	~
Nevada						
New Mexico	17.7 (14.8– 21.1)	15.8 (13.2– 18.7)	19.3 (16.1– 23.0)	18.3 (15.3– 21.6)	~	~
Utah	28.4 (24.6– 32.6)	20.4 (17.7– 23.3)	29.4 (25.5– 33.7)	21.4 (18.6– 24.5)	~	~
Wyoming	28.1 (21.4– 36.5)	25.7 (19.7– 33.0)	28.7 (21.8– 37.3)	26.7 (20.5– 34.3)	~	~
Pacific	22.2 (21.5– 22.9)	18.9 (18.4– 19.5)	24.6 (23.8– 25.4)	21.7 (21.0– 22.4)	~	~
Alaska	14.4 (8.3– 24.6)	8.3 (5.5– 12.1)	15.2 (8.8– 27.0)	10.1 (6.5– 14.9)	~	~
California	22.1 (21.3– 22.9)	18.3 (17.7– 19.0)	24.4 (23.4– 25.3)	20.9 (20.1– 21.7)	~	~
San Francisco-Oakland	19.0 (17.0– 21.2)	17.5 (15.7– 19.4)	24.9 (22.2– 27.8)	24.3 (21.8– 27.1)	~	~
San Jose-Monterey	20.3 (17.5– 23.5)	16.7 (14.4– 19.2)	20.5 (17.3– 24.1)	17.4 (14.8– 20.3)	~	~
Los Angeles	17.4 (16.0– 18.9)	13.5 (12.5– 14.6)	21.4 (19.7– 23.3)	16.8 (15.4– 18.2)	~	~
Hawaii	19.6 (16.2– 23.6)	19.1 (15.8– 23.0)	55.2 (43.4– 69.4)	47.2 (37.5– 58.8)	~	~
Oregon	23.7 (21.4– 26.3)	23.2 (20.9– 25.7)	24.4 (21.9– 27.0)	24.4 (22.0– 27.0)	~	~
Washington	23.3 (21.5– 25.3)	21.2 (19.6– 23.0)	25.3 (23.3– 27.4)	23.8 (21.9– 25.8)	~	~
Seattle-Puget Sound	23.4 (21.2– 25.9)	21.3 (19.3– 23.4)	25.7 (23.3– 28.4)	24.4 (22.1– 26.9)	~	~

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.10.2: Melanomas of the Skin, Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	12.1 (11.9– 12.3)	12.7 (12.5– 12.9)	13.4 (13.1– 13.6)	14.4 (14.2– 14.7)	0.9 (0.7– 1.1)	0.7 (0.6– 0.9)	
Northeast	10.4 (10.0– 10.7)	11.5 (11.0– 11.9)	11.6 (11.1– 12.0)	13.2 (12.8– 13.7)	~	~	
New England	14.9 (14.0– 15.9)	16.2 (15.2– 17.2)	15.3 (14.3– 16.3)	17.0 (16.0– 18.2)	~	~	
Connecticut	15.9 (14.1– 17.9)	17.3 (15.4– 19.4)	16.1 (14.2– 18.2)	18.0 (15.9– 20.3)	~	~	
Maine							
Massachusetts	13.9 (12.6– 15.2)	15.1 (13.8– 16.5)	14.3 (13.0– 15.7)	16.1 (14.7– 17.6)	~	~	
New Hampshire	19.0 (15.7– 22.8)	19.7 (16.3– 23.6)	19.1 (15.8– 23.0)	20.0 (16.5– 23.9)	~	~	
Rhode Island	12.9 (10.1– 16.3)	15.0 (11.8– 18.7)	13.6 (10.7– 17.3)	16.3 (12.8– 20.3)	~	~	
Vermont							
Middle Atlantic	9.0 (8.6– 9.4)	10.0 (9.6– 10.5)	10.3 (9.9– 10.8)	11.9 (11.4– 12.5)	~	~	
New Jersey	11.5 (10.6– 12.6)	12.8 (11.7– 13.9)	13.8 (12.6– 15.0)	15.9 (14.6– 17.3)	~	~	
New York	7.3 (6.8– 7.8)	8.0 (7.4– 8.6)	8.8 (8.1– 9.4)	10.0 (9.3– 10.8)	~	~	
Pennsylvania	9.9 (9.2– 10.7)	11.3 (10.5– 12.2)	10.3 (9.5– 11.1)	12.0 (11.1– 13.0)	~	~	
Midwest							
East North Central							
Illinois	8.7 (8.0– 9.4)	9.0 (8.3– 9.8)	9.9 (9.1– 10.8)	10.6 (9.7– 11.6)	~	~	
Indiana							
Michigan	15.3 (14.2– 16.4)	15.7 (14.6– 16.8)	16.7 (15.5– 17.9)	17.6 (16.3– 18.9)	~	~	
Detroit	13.3 (11.8– 14.9)	13.9 (12.4– 15.6)	17.1 (15.1– 19.2)	18.6 (16.5– 20.9)	~	~	
Ohio	11.0 (10.2– 11.9)	11.6 (10.8– 12.6)	11.3 (10.4– 12.2)	12.1 (11.2– 13.1)	~	~	
Wisconsin	9.1 (8.0– 10.3)	9.4 (8.3– 10.6)	9.4 (8.2– 10.6)	9.9 (8.7– 11.3)	~	~	
West North Central	11.9 (11.2– 12.6)	12.5 (11.8– 13.3)	11.6 (10.9– 12.4)	12.5 (11.7– 13.2)	~	~	
Iowa	14.2 (12.4– 16.2)	15.5 (13.5– 17.6)	13.4 (11.7– 15.5)	14.9 (13.0– 17.1)	~	~	
Kansas	12.4 (10.6– 14.4)	13.1 (11.3– 15.2)	11.2 (9.5– 13.2)	12.2 (10.3– 14.3)	~	~	
Minnesota	15.6 (14.1– 17.3)	15.9 (14.4– 17.6)	15.4 (13.9– 17.1)	16.0 (14.4– 17.8)	~	~	
Missouri	7.4 (6.5– 8.5)	8.0 (7.0– 9.1)	7.9 (6.9– 9.1)	8.8 (7.7– 10.0)	~	~	
Nebraska	13.9 (11.5– 16.7)	14.0 (11.6– 16.7)	11.5 (9.2– 14.1)	11.7 (9.4– 14.3)	~	~	
North Dakota					~	~	
South Dakota	6.5 (4.0– 10.1)	6.9 (4.3– 10.5)	6.5 (4.0– 10.3)	7.0 (4.4– 10.8)	~	~	
South							
South Atlantic							
Delaware	10.7 (7.7– 14.5)	11.1 (8.0– 15.0)	12.2 (8.7– 16.8)	13.4 (9.6– 18.2)	~	~	
District of Columbia	5.9 (3.6– 9.7)	7.2 (4.4– 11.1)	~	~	~	~	
Florida	12.3 (11.6– 13.1)	14.6 (13.7– 15.4)	13.5 (12.7– 14.4)	16.7 (15.7– 17.8)	~	~	
Georgia							
Atlanta	10.9 (9.1– 13.0)	10.2 (8.6– 12.0)	14.1 (11.8– 16.9)	14.4 (12.0– 17.1)	~	~	
Maryland	14.4 (13.1– 16.0)	14.9 (13.5– 16.5)	20.0 (18.0– 22.1)	21.7 (19.6– 24.0)	~	~	
North Carolina	11.3 (10.3– 12.3)	11.7 (10.7– 12.8)	14.0 (12.7– 15.4)	15.2 (13.8– 16.6)	~	~	
South Carolina	13.2 (11.7– 14.8)	13.7 (12.1– 15.4)	17.5 (15.5– 19.9)	19.0 (16.8– 21.5)	~	~	
Virginia							
West Virginia	11.5 (9.5– 13.9)	12.8 (10.6– 15.3)	10.4 (8.5– 12.7)	11.7 (9.5– 14.1)	~	~	
East South Central							
Alabama							
Kentucky	16.4 (14.7– 18.3)	17.2 (15.4– 19.1)	16.5 (14.7– 18.4)	17.4 (15.6– 19.4)	~	~	
Mississippi							
Tennessee							

continued

Table 2.10.2: Melanomas of the Skin. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Females, 1999

Area	All Races		White		Black	
	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)
West South Central						
Arkansas	6.5 (5.5- 7.7)	6.6 (5.6- 7.7)	9.1 (7.7- 10.7)	9.8 (8.3- 11.5)	~	~
Louisiana						
Oklahoma						
Texas						
West						
Mountain	14.4 (14.0- 14.9)	14.3 (13.8- 14.7)	15.8 (15.4- 16.3)	15.9 (15.4- 16.4)	1.3 (0.8- 2.1)	1.2 (0.7- 1.8)
Arizona	12.4 (11.0- 13.9)	12.5 (11.1- 14.0)	13.6 (12.0- 15.2)	14.0 (12.5- 15.7)	~	~
Colorado	16.9 (15.2- 18.8)	17.0 (15.3- 18.9)	18.0 (16.1- 20.0)	18.3 (16.4- 20.3)	~	~
Idaho	15.8 (12.8- 19.4)	15.3 (12.4- 18.7)	16.3 (13.2- 19.9)	15.8 (12.8- 19.3)	~	~
Montana	9.5 (6.8- 12.9)	9.7 (7.0- 13.1)	8.9 (6.2- 12.4)	9.3 (6.6- 12.7)	~	~
Nevada						
New Mexico	9.8 (7.8- 12.1)	9.6 (7.7- 11.9)	10.6 (8.5- 13.3)	10.8 (8.6- 13.4)	~	~
Utah	17.5 (14.8- 20.5)	14.6 (12.4- 17.1)	18.3 (15.5- 21.4)	15.4 (13.1- 18.0)	~	~
Wyoming	12.5 (8.4- 18.0)	13.0 (8.8- 18.5)	12.9 (8.7- 18.6)	13.6 (9.2- 19.3)	~	~
Pacific	14.6 (14.1- 15.1)	14.4 (13.9- 15.0)	16.3 (15.7- 16.9)	16.3 (15.7- 16.9)	1.2 (0.7- 2.1)	1.1 (0.7- 1.8)
Alaska	7.2 (4.2- 12.5)	6.5 (3.9- 10.1)	9.1 (5.3- 16.0)	8.7 (5.2- 13.6)	~	~
California	13.9 (13.3- 14.5)	13.5 (13.0- 14.1)	15.2 (14.5- 15.9)	15.1 (14.4- 15.8)	~	~
San Francisco-Oakland	13.3 (11.8- 14.9)	14.2 (12.6- 15.9)	18.4 (16.3- 20.8)	20.2 (17.9- 22.8)	~	~
San Jose-Monterey	14.5 (12.4- 17.0)	14.2 (12.1- 16.5)	13.6 (11.2- 16.2)	13.6 (11.3- 16.3)	~	~
Los Angeles	11.0 (10.1- 12.0)	10.5 (9.6- 11.4)	13.8 (12.6- 15.2)	13.1 (11.9- 14.4)	~	~
Hawaii	9.7 (7.4- 12.6)	10.3 (7.9- 13.3)	26.9 (19.3- 36.9)	27.7 (19.9- 37.4)	~	~
Oregon	16.5 (14.7- 18.6)	17.4 (15.5- 19.5)	16.6 (14.7- 18.7)	17.7 (15.7- 19.9)	~	~
Washington	19.4 (17.8- 21.0)	19.6 (18.0- 21.3)	21.3 (19.5- 23.1)	21.9 (20.2- 23.8)	~	~
Seattle-Puget Sound	18.9 (17.0- 20.9)	19.2 (17.4- 21.3)	20.9 (18.9- 23.2)	21.9 (19.7- 24.2)	~	~

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.11: Cancer of the Breast. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Females, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)		Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
United States	134.1 (133.4–134.8)	143.2 (142.5–143.9)		136.3 (135.5–137.0)	152.7 (151.9–153.5)		112.7 (110.7–114.7)	94.9 (93.3–96.6)	
Northeast	136.1 (134.8–137.5)	153.6 (152.1–155.1)		138.5 (137.0–140.0)	164.1 (162.4–165.8)		101.9 (98.3–105.7)	90.9 (87.7–94.2)	
New England	145.1 (142.2–148.1)	160.7 (157.5–163.9)		145.1 (142.1–148.2)	167.0 (163.6–170.5)		107.3 (95.5–120.2)	79.9 (71.4–89.2)	
Connecticut	150.1 (144.6–155.8)	169.6 (163.5–176.0)		149.3 (143.5–155.3)	176.3 (169.6–183.2)		121.8 (103.2–143.2)	98.4 (83.7–114.9)	
Maine									
Massachusetts	144.7 (140.7–148.7)	160.3 (156.0–164.8)		145.1 (141.0–149.4)	168.1 (163.4–172.9)		94.4 (79.0–112.4)	67.4 (56.7–79.6)	
New Hampshire	137.9 (128.7–147.6)	138.6 (129.4–148.3)		136.3 (127.1–146.1)	138.1 (128.9–147.9)		~	~	
Rhode Island	139.7 (130.1–150.0)	159.6 (148.9–170.9)		142.1 (132.1–152.8)	168.0 (156.5–180.1)		133.0 (76.9–226.3)	77.6 (47.4–119.9)	
Vermont									
Middle Atlantic	133.5 (132.0–135.1)	151.4 (149.7–153.1)		136.3 (134.7–138.0)	163.1 (161.1–165.1)		101.4 (97.6–105.3)	92.4 (88.9–95.9)	
New Jersey	139.6 (136.2–143.0)	155.4 (151.7–159.2)		145.8 (142.0–149.7)	172.6 (168.1–177.1)		109.0 (100.3–118.4)	94.2 (86.7–102.1)	
New York	128.7 (126.5–130.9)	141.8 (139.5–144.3)		132.7 (130.2–135.2)	155.1 (152.3–158.1)		90.1 (85.4–94.9)	82.9 (78.7–87.3)	
Pennsylvania	136.2 (133.5–138.9)	163.3 (160.1–166.5)		135.1 (132.3–138.0)	167.7 (164.3–171.1)		125.1 (116.1–134.6)	116.7 (108.3–125.5)	
Midwest									
East North Central	136.6 (133.7–139.5)	142.9 (140.0–145.9)		137.0 (133.9–140.2)	150.6 (147.2–154.0)		122.2 (114.7–130.1)	102.4 (96.1–108.9)	
Illinois									
Indiana	131.6 (128.5–134.7)	137.8 (134.6–141.1)		132.8 (129.5–136.2)	145.3 (141.7–149.0)		121.7 (113.3–130.7)	103.4 (96.2–110.9)	
Michigan	129.9 (125.3–134.7)	139.0 (134.0–144.1)		131.8 (126.4–137.3)	150.9 (144.8–157.2)		125.0 (115.2–135.4)	111.6 (102.9–120.8)	
Detroit	135.8 (132.9–138.7)	148.5 (145.4–151.7)		134.3 (131.3–137.4)	151.9 (148.5–155.3)		103.4 (96.0–111.3)	103.4 (96.0–111.3)	
Ohio	132.8 (128.6–137.1)	142.3 (137.8–146.9)		132.2 (127.9–136.7)	147.4 (142.6–152.3)		140.8 (116.7–169.7)	89.0 (74.7–105.3)	
Wisconsin	133.1 (130.8–135.4)	144.1 (141.6–146.5)		132.9 (130.6–135.3)	148.5 (145.9–151.2)		120.5 (110.1–131.6)	92.7 (84.8–101.2)	
West North Central	132.3 (126.8–138.1)	153.2 (146.9–159.6)		132.8 (127.2–138.6)	156.2 (149.8–162.8)		127.3 (81.7–191.2)	88.8 (57.5–131.1)	
Iowa	135.8 (129.8–142.0)	145.7 (139.3–152.3)		134.6 (128.4–141.0)	148.6 (141.8–155.5)		110.9 (86.1–141.1)	87.7 (68.2–110.9)	
Kansas	140.1 (135.4–144.9)	143.9 (139.2–148.8)		139.5 (134.8–144.4)	148.9 (144.0–154.1)		107.0 (74.1–152.4)	55.5 (39.6–75.5)	
Minnesota	127.7 (123.7–131.8)	138.9 (134.6–143.3)		127.5 (123.3–131.8)	144.2 (139.5–149.1)		125.1 (112.2–139.2)	104.3 (93.6–116.0)	
Missouri	130.4 (123.0–138.1)	142.9 (135.0–151.2)		129.9 (122.4–137.7)	146.2 (137.9–154.8)		112.9 (74.2–167.2)	80.0 (53.2–115.6)	
Nebraska	130.3 (118.4–143.1)	144.6 (131.7–158.4)		130.8 (118.7–144.0)	150.3 (136.7–164.9)		~	~	
North Dakota									
South Dakota									
South									
South Atlantic	138.0 (126.8–150.0)	145.5 (133.8–158.1)		137.9 (125.6–151.2)	157.3 (143.4–172.2)		127.8 (100.6–161.1)	100.9 (79.9–125.8)	
Delaware	138.0 (125.3–152.0)	157.0 (142.6–172.5)		162.8 (137.9–193.2)	167.5 (142.3–196.0)		126.3 (111.3–143.4)	150.4 (132.7–169.8)	
District of Columbia	132.9 (130.5–135.2)	166.3 (163.4–169.1)		136.5 (134.0–139.1)	184.9 (181.6–188.2)		100.3 (93.8–107.2)	76.4 (71.6–81.5)	
Florida									
Georgia									
Atlanta	141.3 (134.4–148.4)	119.4 (113.7–125.3)		139.8 (131.9–148.1)	133.8 (126.2–141.7)		144.2 (129.8–159.9)	94.3 (85.5–103.7)	
Maryland	137.0 (132.6–141.5)	139.6 (135.2–144.2)		139.6 (134.4–144.9)	155.3 (149.6–161.2)		127.7 (118.9–137.1)	106.9 (99.7–114.4)	
North Carolina	123.2 (119.8–126.6)	131.0 (127.5–134.7)		125.8 (122.0–129.7)	143.2 (138.9–147.6)		110.9 (103.6–118.5)	97.4 (91.1–104.1)	
South Carolina	125.6 (120.9–130.5)	132.7 (127.7–137.8)		127.2 (121.7–133.0)	147.2 (140.8–153.8)		114.9 (105.9–124.4)	99.6 (91.9–107.8)	
Virginia									
West Virginia	123.5 (117.0–130.3)	149.9 (142.1–157.9)		122.7 (116.1–129.5)	149.8 (141.9–158.0)		116.5 (81.7–162.5)	126.7 (89.6–173.9)	
East South Central									
Alabama									
Kentucky	126.8 (122.1–131.6)	136.7 (131.7–141.9)		125.7 (120.9–130.7)	138.1 (132.9–143.6)		126.8 (108.1–147.8)	110.0 (93.9–128.0)	
Mississippi									
Tennessee									

continued

Table 2.11: Cancer of the Breast. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate [§] (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas							
Louisiana	123.1 (118.6–127.8)	124.5 (120.0–129.2)	127.6 (122.2–133.1)	143.4 (137.4–149.7)	111.8 (103.6–120.6)	91.4 (84.7– 98.5)	
Oklahoma							
Texas							
West							
Mountain							
Arizona	123.6 (119.3–128.1)	128.5 (124.0–133.1)	126.9 (122.3–131.6)	138.3 (133.3–143.4)	84.2 (62.0– 113.1)	59.3 (44.2– 78.0)	
Colorado	139.4 (134.2–144.6)	138.3 (133.2–143.5)	140.9 (135.6–146.3)	142.8 (137.4–148.3)	91.5 (69.9– 119.2)	74.9 (57.8– 95.4)	
Idaho	131.4 (122.5–140.9)	128.8 (120.0–138.0)	132.3 (123.3–141.9)	131.1 (122.2–140.6)	~	~	
Montana	122.2 (112.6–132.6)	136.6 (125.9–147.9)	120.7 (111.0–131.2)	140.1 (128.9–152.1)	~	~	
Nevada							
New Mexico	122.8 (115.6–130.4)	121.9 (114.7–129.4)	129.9 (122.0–138.1)	135.7 (127.5–144.2)	~	~	
Utah	119.3 (112.0–127.0)	92.7 (87.0– 98.6)	121.5 (114.0–129.4)	95.9 (90.0–102.1)	~	~	
Wyoming	131.2 (117.3–146.6)	136.3 (121.9–151.9)	133.0 (118.8–148.7)	140.5 (125.5–156.7)	~	~	
Pacific							
Alaska	138.9 (137.3–140.5)	135.5 (134.0–137.1)	144.6 (142.9–146.4)	145.5 (143.7–147.3)	117.6 (111.3–124.1)	95.8 (90.8–101.1)	
Alaska	127.8 (112.7–145.1)	99.9 (88.8–112.0)	136.2 (118.3–156.8)	111.7 (98.1–126.6)	~	~	
California	135.1 (133.3–136.9)	129.2 (127.5–131.0)	141.5 (139.4–143.6)	139.6 (137.5–141.6)	118.0 (111.4–124.9)	98.5 (93.1–104.2)	
San Francisco-Oakland	143.8 (138.8–148.9)	153.0 (147.7–158.4)	159.5 (153.1–166.1)	179.3 (172.2–186.6)	110.9 (97.5–125.8)	100.3 (88.3–113.5)	
San Jose-Monterey	137.1 (130.2–144.3)	128.9 (122.4–135.6)	146.4 (138.4–154.7)	143.8 (136.0–151.9)	76.8 (45.4–127.2)	53.9 (33.7– 81.5)	
Los Angeles	125.5 (122.2–128.9)	115.8 (112.8–118.9)	132.0 (128.1–136.1)	122.3 (118.7–126.0)	115.6 (106.4–125.5)	105.4 (97.0–114.3)	
Hawaii	134.0 (125.2–143.3)	147.2 (137.6–157.3)	155.5 (136.2–177.0)	157.4 (138.0–178.6)	~	~	
Oregon	151.5 (145.9–157.3)	166.5 (160.4–172.8)	153.0 (147.3–159.0)	172.4 (166.0–179.0)	137.8 (91.0–201.0)	93.9 (62.4–135.7)	
Washington	153.8 (149.3–158.4)	154.9 (150.4–159.5)	154.6 (150.0–159.5)	161.5 (156.6–166.5)	107.7 (83.3–138.4)	73.3 (57.3– 92.5)	
Seattle-Puget Sound	156.1 (150.6–161.7)	156.6 (151.1–162.2)	160.8 (155.0–166.8)	168.5 (162.4–174.7)	106.7 (80.9–139.9)	73.1 (56.2– 93.5)	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.12: Cancer of the Breast. *In Situ* Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [‡] (CI)	
United States	28.8 (28.5– 29.1)	30.1 (29.8– 30.4)	29.3 (28.9– 29.6)	31.7 (31.4– 32.1)	22.5 (21.6– 23.4)	18.8 (18.1– 19.6)	
Northeast	34.4 (33.7– 35.1)	37.4 (36.6– 38.1)	35.1 (34.4– 35.9)	39.5 (38.7– 40.4)	24.0 (22.3– 25.8)	21.4 (19.9– 23.0)	
New England	43.1 (41.5– 44.8)	45.7 (44.0– 47.5)	43.0 (41.3– 44.7)	47.1 (45.3– 49.0)	27.0 (21.4– 33.8)	20.5 (16.3– 25.5)	
Connecticut	40.2 (37.3– 43.3)	43.5 (40.4– 46.8)	40.1 (37.0– 43.3)	45.0 (41.7– 48.6)	30.9 (22.2– 42.5)	26.0 (18.7– 35.1)	
Maine							
Massachusetts	47.0 (44.7– 49.4)	49.7 (47.3– 52.2)	46.7 (44.3– 49.2)	51.2 (48.6– 53.9)	26.2 (18.4– 36.7)	18.3 (13.0– 25.1)	
New Hampshire	36.4 (31.7– 41.5)	36.5 (31.8– 41.6)	36.3 (31.6– 41.5)	36.6 (31.9– 41.8)	~	~	
Rhode Island	35.8 (30.9– 41.2)	39.1 (33.9– 44.9)	37.1 (32.0– 43.0)	41.8 (36.2– 48.1)	~	~	
Vermont							
Middle Atlantic	31.8 (31.1– 32.6)	34.8 (34.0– 35.7)	32.5 (31.7– 33.4)	37.0 (36.0– 37.9)	23.6 (21.8– 25.5)	21.5 (19.9– 23.3)	
New Jersey	34.4 (32.7– 36.2)	37.0 (35.2– 38.9)	36.9 (35.0– 39.0)	41.6 (39.5– 43.9)	23.0 (19.2– 27.6)	20.2 (16.8– 24.0)	
New York	31.2 (30.1– 32.3)	33.4 (32.2– 34.6)	32.1 (30.8– 33.4)	35.7 (34.3– 37.1)	20.4 (18.2– 22.8)	18.7 (16.7– 20.8)	
Pennsylvania	31.0 (29.7– 32.3)	35.5 (34.0– 37.0)	30.4 (29.0– 31.8)	35.8 (34.2– 37.4)	33.1 (28.5– 38.1)	30.8 (26.6– 35.5)	
Midwest							
East North Central	27.0 (25.7– 28.3)	27.6 (26.3– 28.9)	27.3 (25.9– 28.7)	29.0 (27.5– 30.5)	19.5 (16.6– 22.9)	16.3 (13.9– 19.0)	
Illinois							
Indiana							
Michigan	32.0 (30.5– 33.6)	32.8 (31.3– 34.5)	32.2 (30.5– 33.9)	34.2 (32.5– 36.1)	30.7 (26.5– 35.3)	26.0 (22.5– 30.0)	
Detroit	39.4 (36.9– 42.1)	41.5 (38.8– 44.3)	40.6 (37.6– 43.8)	45.1 (41.8– 48.6)	34.4 (29.4– 40.1)	30.7 (26.3– 35.7)	
Ohio	27.5 (26.2– 28.8)	29.4 (28.0– 30.8)	27.3 (26.0– 28.1)	30.0 (28.5– 31.5)	22.2 (18.5– 26.3)	19.3 (16.2– 22.9)	
Wisconsin	26.9 (25.0– 28.9)	27.7 (25.8– 29.8)	27.0 (25.0– 29.1)	28.7 (26.6– 30.9)	26.5 (16.9– 41.1)	17.0 (11.1– 24.9)	
West North Central	24.6 (23.7– 25.7)	25.7 (24.7– 26.8)	24.9 (23.9– 25.9)	26.8 (25.7– 27.9)	14.3 (10.9– 18.5)	11.0 (8.4– 14.2)	
Iowa	25.8 (23.3– 28.4)	28.4 (25.7– 31.3)	26.2 (23.8– 28.9)	29.4 (26.6– 32.3)	~	~	
Kansas	23.1 (20.6– 25.8)	23.7 (21.1– 26.4)	22.4 (19.9– 25.2)	23.6 (21.0– 26.5)	~	~	
Minnesota	28.7 (26.6– 30.9)	28.6 (26.5– 30.8)	28.4 (26.3– 30.7)	29.4 (27.2– 31.7)	~	~	
Missouri	21.6 (20.0– 23.3)	23.1 (21.3– 24.9)	22.2 (20.5– 24.1)	24.5 (22.6– 26.6)	15.5 (11.2– 21.1)	13.1 (9.5– 17.6)	
Nebraska	25.3 (22.1– 28.9)	26.2 (22.9– 29.9)	25.9 (22.5– 29.6)	27.4 (23.9– 31.3)	~	~	
North Dakota	21.1 (16.5– 26.7)	22.9 (18.0– 28.8)	21.5 (16.7– 27.3)	24.2 (18.9– 30.4)	~	~	
South Dakota							
South							
South Atlantic							
Delaware	39.3 (33.4– 46.0)	40.6 (34.5– 47.5)	40.8 (34.1– 48.5)	44.8 (37.6– 53.1)	29.6 (17.6– 48.1)	24.3 (14.6– 37.9)	
District of Columbia	29.0 (23.3– 36.0)	32.8 (26.4– 40.3)	36.5 (25.2– 54.1)	36.5 (25.3– 51.0)	23.1 (17.1– 31.3)	28.7 (21.3– 37.8)	
Florida	27.3 (26.2– 28.4)	33.0 (31.7– 34.3)	28.3 (27.2– 29.6)	36.6 (35.1– 38.1)	18.8 (16.0– 21.9)	14.4 (12.4– 16.7)	
Georgia							
Atlanta	30.7 (27.5– 34.1)	25.9 (23.3– 28.8)	31.8 (28.0– 35.9)	30.4 (26.8– 34.3)	29.2 (22.9– 36.9)	18.8 (15.0– 23.3)	
Maryland	32.8 (30.7– 35.0)	33.3 (31.1– 35.6)	33.0 (30.5– 35.7)	36.0 (33.3– 38.9)	29.8 (25.6– 34.6)	24.8 (21.4– 28.6)	
North Carolina	25.4 (23.9– 27.0)	26.7 (25.1– 28.4)	26.6 (24.8– 28.4)	29.8 (27.8– 31.8)	20.8 (17.7– 24.3)	18.0 (15.3– 21.0)	
South Carolina	23.4 (21.4– 25.6)	24.7 (22.6– 26.9)	24.2 (21.8– 26.8)	27.6 (24.8– 30.5)	21.6 (17.7– 26.0)	18.1 (14.9– 21.8)	
Virginia							
West Virginia	24.3 (21.5– 27.5)	28.8 (25.5– 32.5)	24.3 (21.4– 27.5)	29.1 (25.7– 32.9)	~	~	
East South Central							
Alabama							
Kentucky	22.8 (20.8– 24.9)	24.3 (22.2– 26.5)	23.2 (21.1– 25.4)	25.2 (22.9– 27.5)	~	~	
Mississippi							
Tennessee							

continued

Table 2.12: Cancer of the Breast. *In Situ* Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Females, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	
West South Central									
Arkansas	21.0 (19.1– 22.9)	21.1 (19.3– 23.1)	21.4 (19.2– 23.8)	23.7 (21.3– 26.3)	19.7 (16.3– 23.6)	16.0 (13.3– 19.2)			
Louisiana									
Oklahoma									
Texas									
West									
Mountain									
Arizona	25.0 (23.0– 27.0)	25.4 (23.4– 27.5)	25.7 (23.6– 27.8)	27.2 (25.0– 29.5)	~	~	~	~	
Colorado	27.6 (25.4– 30.0)	27.8 (25.5– 30.1)	27.9 (25.6– 30.4)	28.6 (26.3– 31.1)	~	~	~	~	
Idaho	27.0 (23.0– 31.5)	26.0 (22.2– 30.3)	26.9 (22.9– 31.5)	26.2 (22.3– 30.6)	~	~	~	~	
Montana	26.4 (22.0– 31.5)	29.1 (24.3– 34.5)	26.5 (22.0– 31.7)	30.2 (25.1– 36.0)	~	~	~	~	
Nevada									
New Mexico	21.4 (18.5– 24.7)	21.3 (18.3– 24.5)	23.0 (19.8– 26.7)	24.0 (20.7– 27.8)	~	~	~	~	
Utah	22.5 (19.3– 25.9)	17.3 (14.9– 20.0)	22.9 (19.7– 26.5)	18.0 (15.4– 20.7)	~	~	~	~	
Wyoming	23.4 (17.8– 30.5)	24.7 (18.8– 31.9)	23.7 (18.0– 30.9)	25.4 (19.3– 32.8)	~	~	~	~	
Pacific									
Alaska	28.0 (27.3– 28.7)	27.0 (26.4– 27.7)	28.2 (27.4– 29.0)	27.9 (27.1– 28.7)	22.0 (19.3– 24.9)	17.4 (15.3– 19.8)			
Alaska	30.8 (23.8– 39.9)	25.1 (19.7– 31.6)	29.7 (21.9– 40.4)	25.6 (19.4– 33.3)	~	~	~	~	
California	26.6 (25.8– 27.4)	25.1 (24.4– 25.9)	27.3 (26.4– 28.2)	26.4 (25.5– 27.3)	~	~	~	~	
San Francisco-Oakland	31.6 (29.2– 34.1)	33.2 (30.7– 35.8)	30.9 (28.1– 33.9)	33.9 (30.8– 37.1)	21.5 (18.7– 24.6)	17.6 (15.3– 20.0)			
San Jose-Monterey	33.0 (29.7– 36.7)	31.0 (27.8– 34.4)	34.7 (30.9– 38.9)	33.5 (29.8– 37.6)	25.0 (18.8– 32.6)	22.4 (16.9– 29.1)			
Los Angeles	24.7 (23.2– 26.2)	22.4 (21.1– 23.8)	26.4 (24.6– 28.3)	23.9 (22.3– 25.5)	~	~	~	~	
Hawaii	35.4 (30.9– 40.4)	38.6 (33.8– 44.0)	28.9 (21.0– 39.2)	29.6 (21.6– 39.6)	20.2 (16.4– 24.6)	18.2 (14.8– 22.1)			
Oregon	30.3 (27.9– 33.0)	33.0 (30.3– 35.9)	30.0 (27.5– 32.7)	33.4 (30.6– 36.4)	~	~	~	~	
Washington	32.3 (30.3– 34.4)	32.3 (30.2– 34.4)	31.3 (29.2– 33.5)	32.3 (30.2– 34.6)	24.9 (13.9– 42.6)	16.5 (9.4– 26.8)			
Seattle-Puget Sound	34.0 (31.5– 36.7)	34.0 (31.5– 36.7)	34.0 (31.4– 36.9)	35.4 (32.6– 38.3)	~	~	~	~	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† *In situ* cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.16: Cancer of the Prostate. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	162.0 (161.2–162.8)	146.5 (145.8–147.2)	152.3 (151.5–153.2)	147.1 (146.3–148.0)	229.3 (225.7–232.9)	140.6 (138.5–142.7)	
Northeast	167.0 (165.3–168.6)	160.3 (158.7–161.9)	158.0 (156.3–159.7)	162.6 (160.8–164.4)	231.0 (224.1–238.2)	150.2 (145.9–154.7)	
New England	174.0 (170.4–177.6)	162.8 (159.5–166.2)	167.5 (163.9–171.1)	165.1 (161.6–168.7)	243.9 (221.3–268.7)	126.8 (115.6–138.7)	
Connecticut	166.5 (160.1–173.1)	160.5 (154.4–166.9)	156.4 (150.0–163.1)	159.9 (153.4–166.7)	232.1 (199.3–270.1)	133.4 (115.4–153.6)	
Maine							
Massachusetts	180.1 (175.1–185.2)	167.8 (163.2–172.5)	173.7 (168.7–178.8)	171.6 (166.6–176.6)	259.8 (226.5–298.1)	125.0 (109.9–141.6)	
New Hampshire	151.7 (141.1–163.1)	129.3 (120.3–138.8)	149.8 (139.1–161.1)	129.3 (120.2–138.9)	~	~	
Rhode Island	185.1 (172.9–198.0)	180.6 (168.7–193.1)	184.9 (172.4–198.1)	189.5 (176.8–202.8)	233.5 (152.0–360.5)	111.2 (73.9–160.7)	
Vermont							
Middle Atlantic	164.9 (163.0–166.8)	159.6 (157.8–161.4)	155.0 (153.0–157.0)	161.7 (159.7–163.8)	229.6 (222.3–237.1)	153.6 (148.9–158.4)	
New Jersey	188.4 (184.0–192.9)	176.8 (172.7–181.0)	182.0 (177.4–186.8)	186.6 (181.8–191.4)	273.1 (255.4–292.0)	172.0 (161.4–183.2)	
New York	151.1 (148.4–153.8)	140.0 (137.5–142.5)	138.5 (135.7–141.3)	140.0 (137.2–142.9)	210.1 (200.8–219.7)	139.7 (133.8–145.8)	
Pennsylvania	169.0 (165.7–172.3)	177.5 (174.1–181.0)	159.4 (156.1–162.7)	175.1 (171.5–178.8)	241.7 (226.4–258.0)	172.6 (161.7–183.9)	
Midwest							
East North Central	155.2 (151.8–158.7)	132.9 (129.9–135.8)	143.7 (140.2–147.3)	131.3 (128.1–134.6)	206.1 (193.7–219.4)	124.1 (116.9–131.8)	
Illinois							
Indiana							
Michigan	202.2 (197.9–206.6)	177.7 (173.9–181.5)	185.8 (181.4–190.3)	172.1 (168.1–176.2)	290.3 (274.4–306.9)	193.1 (182.6–203.9)	
Detroit	219.0 (212.0–226.2)	194.4 (188.2–200.6)	196.3 (188.8–204.0)	186.7 (179.7–193.9)	299.4 (280.9–318.9)	217.4 (204.1–231.3)	
Ohio	153.6 (150.1–157.1)	141.6 (138.5–144.8)	138.5 (135.1–142.0)	132.6 (129.4–136.0)	222.1 (207.8–237.3)	154.1 (144.4–164.3)	
Wisconsin	161.2 (156.1–166.4)	146.6 (142.0–151.3)	156.8 (151.7–162.1)	149.9 (145.0–154.9)	278.5 (233.9–332.6)	113.5 (96.7–132.4)	
West North Central	162.3 (159.6–165.1)	150.0 (147.5–152.6)	156.2 (153.4–159.0)	150.7 (148.0–153.4)	220.0 (202.3–239.1)	119.2 (109.9–129.1)	
Iowa	154.4 (147.9–161.0)	154.7 (148.2–161.3)	148.2 (141.8–154.8)	152.1 (145.6–158.8)	311.2 (219.4–436.2)	141.2 (101.7–190.8)	
Kansas	169.4 (162.0–177.0)	152.4 (145.7–159.2)	159.5 (152.2–167.1)	149.6 (142.7–156.7)	264.7 (216.3–321.8)	140.7 (115.6–169.6)	
Minnesota	181.7 (175.8–187.7)	155.7 (150.7–160.8)	177.1 (171.2–183.1)	159.4 (154.2–164.8)	177.1 (123.9–252.9)	56.2 (40.7– 75.8)	
Missouri	139.9 (135.3–144.6)	132.6 (128.3–137.1)	133.5 (128.8–138.3)	133.0 (128.3–137.7)	214.4 (192.9–237.9)	132.1 (119.1–146.0)	
Nebraska	174.4 (165.1–184.1)	163.0 (154.4–172.0)	164.4 (155.3–174.0)	159.6 (150.7–168.8)	153.6 (100.2–234.0)	87.4 (58.5–125.5)	
North Dakota					~	~	
South Dakota	192.9 (177.7–209.0)	190.2 (175.3–206.1)	193.4 (178.1–209.8)	200.0 (184.2–216.9)			
South							
South Atlantic							
Delaware	163.3 (149.9–178.0)	152.5 (140.1–165.7)	149.7 (135.8–164.9)	153.4 (139.4–168.4)	243.4 (197.4–300.1)	148.3 (121.3–179.5)	
District of Columbia	234.7 (215.2–255.6)	222.1 (203.8–241.6)	144.0 (118.5–175.4)	128.7 (106.3–154.5)	275.0 (248.7–303.6)	276.9 (250.6–305.2)	
Florida	155.5 (152.9–158.1)	188.5 (185.3–191.6)	148.9 (146.3–151.7)	201.1 (197.5–204.7)	228.5 (215.9–241.9)	127.0 (120.4–133.7)	
Georgia							
Atlanta	172.4 (163.0–182.3)	105.8 (100.3–111.5)	142.1 (132.5–152.4)	102.6 (95.9–109.6)	301.4 (272.4–333.6)	118.3 (107.8–129.5)	
Maryland	184.7 (178.8–190.7)	153.7 (148.9–158.6)	157.0 (150.9–163.3)	148.5 (142.8–154.4)	225.6 (210.2–242.1)	132.0 (123.6–140.9)	
North Carolina	140.8 (136.7–145.0)	124.7 (121.1–128.3)	129.8 (125.5–134.2)	126.2 (122.1–130.4)	195.9 (183.6–209.0)	124.4 (116.8–132.4)	
South Carolina	176.1 (169.6–182.9)	154.0 (148.5–159.8)	152.8 (146.0–159.9)	151.7 (145.1–158.5)	255.8 (238.4–274.4)	156.2 (145.9–167.2)	
Virginia							
West Virginia	144.8 (137.0–153.0)	151.7 (143.6–160.1)	141.0 (133.2–149.3)	149.1 (141.0–157.6)	213.0 (156.3–284.4)	173.9 (127.8–231.3)	
East South Central							
Alabama							
Kentucky	155.5 (149.4–161.7)	135.9 (130.7–141.2)	132.8 (127.0–138.7)	119.5 (114.4–124.7)	199.9 (170.8–233.2)	127.4 (109.2–147.8)	
Mississippi							
Tennessee							

continued

Table 2.16: Cancer of the Prostate. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (*continued*)

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{†‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†‡§} (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas	163.1 (157.0–169.4)	133.9 (129.0–139.0)	147.5 (140.9–154.4)	138.2 (132.1–144.5)	218.2 (203.5–233.7)	130.0 (121.4–139.0)	
Louisiana							
Oklahoma							
Texas							
West	156.3 (154.7–157.9)	126.5 (125.2–127.8)	150.8 (149.2–152.5)	127.8 (126.4–129.2)	212.3 (202.9–222.0)	127.8 (122.3–133.4)	
Mountain							
Arizona	114.4 (110.0–119.1)	106.9 (102.7–111.1)	114.5 (110.0–119.3)	113.9 (109.4–118.6)	140.9 (105.0–188.7)	69.5 (53.3–89.1)	
Colorado	166.7 (160.2–173.5)	130.3 (125.3–135.3)	167.4 (160.7–174.3)	133.9 (128.7–139.3)	148.4 (116.7–189.7)	94.6 (75.5–117.0)	
Idaho	157.4 (146.8–168.7)	132.4 (123.6–141.8)	158.6 (147.9–170.0)	135.5 (126.4–145.1)	~	~	
Montana	157.1 (145.5–169.5)	155.7 (144.2–167.8)	149.8 (138.3–162.1)	155.9 (144.0–168.5)	~	~	
Nevada							
New Mexico	148.2 (139.5–157.5)	128.1 (120.6–135.9)	153.2 (144.0–163.0)	142.8 (134.3–151.7)	122.5 (73.1–199.8)	84.7 (51.7–130.8)	
Utah	182.8 (172.8–193.3)	119.6 (113.1–126.4)	185.3 (175.0–196.0)	124.0 (117.3–131.1)	~	~	
Wyoming	172.0 (154.6–191.1)	152.2 (137.0–168.6)	172.4 (154.8–191.7)	155.7 (140.1–172.7)	~	~	
Pacific	159.7 (157.9–161.6)	127.5 (126.0–129.0)	152.3 (150.3–154.3)	127.1 (125.4–128.8)	222.4 (212.2–233.0)	135.4 (129.4–141.6)	
Alaska	155.8 (136.1–179.0)	86.1 (76.3–96.8)	160.6 (138.2–187.3)	94.7 (83.0–107.6)	377.6 (201.8–761.0)	134.4 (78.3–215.2)	
California	154.7 (152.5–156.9)	119.9 (118.3–121.6)	144.3 (142.0–146.6)	117.5 (115.7–119.4)	222.6 (211.9–233.8)	139.2 (132.7–145.9)	
San Francisco-Oakland	162.1 (156.1–168.3)	140.0 (134.8–145.3)	154.6 (147.7–161.7)	143.1 (136.8–149.6)	204.5 (183.3–227.9)	149.7 (134.5–166.2)	
San Jose-Monterey	166.1 (157.5–175.2)	120.3 (114.1–126.7)	156.8 (147.6–166.5)	121.5 (114.5–128.9)	150.0 (102.9–230.2)	71.7 (50.0–99.8)	
Los Angeles	156.6 (152.4–160.9)	113.9 (110.8–117.0)	144.8 (140.2–149.6)	107.0 (103.6–110.5)	236.9 (220.9–254.1)	172.4 (161.0–184.4)	
Hawaii	135.5 (126.1–145.5)	131.2 (122.1–140.7)	183.8 (160.9–209.3)	139.4 (122.1–158.3)	~	~	
Oregon	176.2 (169.6–183.0)	165.8 (159.6–172.2)	173.1 (166.4–179.9)	168.0 (161.6–174.7)	224.6 (156.2–319.6)	121.1 (86.1–165.6)	
Washington	182.4 (177.0–187.9)	153.0 (148.5–157.6)	175.2 (169.7–180.8)	154.5 (149.7–159.4)	207.9 (169.9–254.8)	107.5 (88.7–129.2)	
Seattle-Puget Sound	187.5 (180.8–194.4)	154.3 (148.9–159.9)	189.4 (182.4–196.6)	165.3 (159.2–171.5)	217.2 (175.5–269.1)	111.9 (91.4–135.6)	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.17: Cancer of the Testis. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*†

Males, 1999

Area	All Races			White			Black		
	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{†§} (CI)	Crude Rate [†] (CI)			
United States	5.5 (5.3– 5.6)	5.6 (5.5– 5.8)	6.2 (6.0– 6.3)	6.3 (6.1– 6.5)	1.4 (1.1– 1.6)	1.3 (1.1– 1.5)			
Northeast	5.8 (5.5– 6.1)	5.9 (5.6– 6.2)	6.5 (6.2– 6.9)	6.7 (6.3– 7.0)	1.3 (0.9– 1.9)	1.3 (0.9– 1.7)			
New England	6.2 (5.6– 6.9)	6.5 (5.9– 7.2)	6.7 (6.0– 7.5)	7.0 (6.3– 7.8)	~	~			
Connecticut	6.2 (5.0– 7.6)	6.2 (5.0– 7.6)	6.9 (5.6– 8.5)	6.8 (5.5– 8.4)	~	~			
Maine									
Massachusetts	6.4 (5.6– 7.4)	6.9 (6.0– 7.9)	6.9 (5.9– 7.9)	7.4 (6.4– 8.5)	~	~			
New Hampshire	6.2 (4.4– 8.7)	6.6 (4.7– 9.0)	6.3 (4.4– 8.8)	6.6 (4.7– 9.0)	~	~			
Rhode Island	5.4 (3.5– 8.0)	5.5 (3.6– 8.0)	5.9 (3.8– 8.7)	5.9 (3.9– 8.7)	~	~			
Vermont									
Middle Atlantic	5.6 (5.3– 6.0)	5.7 (5.4– 6.1)	6.5 (6.1– 6.9)	6.5 (6.1– 7.0)	1.4 (0.9– 2.0)	1.3 (0.9– 1.9)			
New Jersey	5.8 (5.1– 6.6)	5.9 (5.2– 6.8)	6.9 (6.0– 7.9)	7.0 (6.1– 8.0)	~	~			
New York	5.5 (5.0– 6.0)	5.7 (5.2– 6.2)	6.5 (5.9– 7.1)	6.6 (6.0– 7.3)	1.2 (0.7– 2.1)	1.2 (0.7– 1.9)			
Pennsylvania	5.6 (5.1– 6.3)	5.7 (5.1– 6.3)	6.1 (5.5– 6.8)	6.1 (5.5– 6.9)	~	~			
Midwest									
East North Central	5.2 (4.7– 5.9)	5.4 (4.8– 6.0)	5.7 (5.1– 6.4)	5.9 (5.2– 6.6)	~	~			
Illinois									
Indiana	5.0 (4.4– 5.7)	5.1 (4.5– 5.8)	5.8 (5.1– 6.6)	5.9 (5.2– 6.7)	~	~			
Michigan	4.8 (3.9– 5.9)	5.0 (4.0– 6.0)	5.9 (4.7– 7.3)	6.2 (5.0– 7.6)	~	~			
Detroit	5.5 (4.9– 6.2)	5.5 (4.9– 6.2)	6.0 (5.3– 6.7)	6.1 (5.4– 6.8)	~	~			
Ohio	7.5 (6.5– 8.7)	7.5 (6.5– 8.6)	7.8 (6.7– 9.0)	7.8 (6.7– 9.0)	~	~			
Wisconsin	6.1 (5.6– 6.6)	6.1 (5.5– 6.6)	6.3 (5.8– 6.9)	6.3 (5.8– 6.9)	~	~			
West North Central	6.0 (4.7– 7.4)	5.9 (4.7– 7.3)	5.8 (4.6– 7.3)	5.7 (4.5– 7.1)	~	~			
Iowa	6.3 (5.0– 7.8)	6.4 (5.1– 7.9)	6.8 (5.4– 8.4)	6.8 (5.4– 8.4)	~	~			
Kansas	7.2 (6.2– 8.4)	7.3 (6.3– 8.5)	7.2 (6.1– 8.5)	7.3 (6.2– 8.5)	~	~			
Minnesota	4.4 (3.7– 5.3)	4.4 (3.7– 5.3)	4.9 (4.0– 5.9)	4.9 (4.0– 5.9)	~	~			
Missouri	8.0 (6.1– 10.2)	7.7 (5.9– 9.9)	8.4 (6.4– 10.8)	8.1 (6.2– 10.4)	~	~			
Nebraska	5.9 (3.5– 9.3)	5.7 (3.4– 9.0)	6.2 (3.7– 10.0)	6.1 (3.6– 9.6)	~	~			
North Dakota									
South Dakota									
South									
South Atlantic	4.9 (2.9– 8.1)	5.2 (3.1– 8.1)	5.3 (3.0– 9.1)	5.6 (3.2– 9.1)	~	~			
Delaware	~	~	~	~	~	~			
District of Columbia									
Florida	5.1 (4.6– 5.7)	4.9 (4.4– 5.5)	5.8 (5.2– 6.5)	5.5 (4.9– 6.1)	1.6 (0.9– 3.2)	1.5 (0.9– 2.4)			
Georgia									
Atlanta	4.4 (3.4– 5.9)	5.2 (4.0– 6.6)	5.6 (4.2– 7.6)	6.7 (5.1– 8.6)	~	~			
Maryland	4.7 (3.9– 5.6)	5.0 (4.1– 5.9)	6.4 (5.2– 7.7)	6.7 (5.5– 8.0)	~	~			
North Carolina	4.2 (3.6– 5.0)	4.4 (3.7– 5.1)	5.1 (4.3– 6.0)	5.3 (4.5– 6.2)	~	~			
South Carolina	4.1 (3.3– 5.2)	4.3 (3.4– 5.4)	5.3 (4.2– 6.8)	5.6 (4.4– 7.1)	~	~			
Virginia									
West Virginia	4.9 (3.5– 6.7)	4.8 (3.5– 6.5)	5.1 (3.7– 7.0)	5.0 (3.6– 6.8)	~	~			
East South Central									
Alabama									
Kentucky	5.4 (4.4– 6.6)	5.5 (4.5– 6.6)	5.5 (4.5– 6.8)	5.6 (4.5– 6.8)	~	~			
Mississippi									
Tennessee									

continued

Table 2.17: Cancer of the Testis. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Males, 1999

Area	All Races			White		Black		
	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)	Age-Adjusted Rate‡§ (CI)	Crude Rate† (CI)
West South Central								
Arkansas	3.7 (2.9- 4.7)	3.6 (2.8- 4.5)	4.9 (3.8- 6.3)	4.9 (3.8- 6.2)	~	~	~	~
Louisiana								
Oklahoma								
Texas								
West								
Mountain	5.7 (5.4- 5.9)	5.9 (5.6- 6.2)	6.3 (6.0- 6.6)	6.5 (6.2- 6.8)	1.5 (0.9- 2.5)	1.5 (0.9- 2.2)		
Arizona	5.5 (4.6- 6.6)	5.4 (4.5- 6.4)	5.9 (4.9- 7.1)	5.8 (4.8- 6.9)	~	~	~	~
Colorado	7.5 (6.4- 8.9)	7.7 (6.5- 9.0)	7.6 (6.4- 9.0)	7.7 (6.5- 9.1)	~	~	~	~
Idaho	6.3 (4.5- 8.9)	5.9 (4.2- 8.2)	6.4 (4.5- 9.0)	5.9 (4.2- 8.2)	~	~	~	~
Montana	6.3 (4.1- 9.4)	5.9 (3.9- 8.7)	6.2 (3.9- 9.4)	5.9 (3.8- 8.8)	~	~	~	~
Nevada								
New Mexico	5.7 (4.2- 7.7)	5.5 (4.0- 7.3)	5.8 (4.2- 8.0)	5.5 (4.0- 7.5)	~	~	~	~
Utah	4.3 (3.1- 6.0)	4.4 (3.3- 5.9)	4.4 (3.2- 6.1)	4.6 (3.3- 6.1)	~	~	~	~
Wyoming	~	~	~	~	~	~	~	~
Pacific								
Alaska	5.5 (5.2- 5.9)	5.8 (5.5- 6.2)	6.3 (6.0- 6.7)	6.7 (6.3- 7.1)	1.3 (0.7- 2.4)	1.3 (0.8- 2.0)		
California	8.4 (5.5- 15.3)	8.3 (5.5- 12.1)	10.4 (6.7- 19.3)	10.5 (6.8- 15.4)	~	~	~	~
San Francisco-Oakland	5.3 (4.9- 5.6)	5.6 (5.2- 6.0)	6.1 (5.7- 6.6)	6.5 (6.1- 7.0)	1.3 (0.7- 2.5)	1.3 (0.7- 2.1)		
San Jose-Monterey	6.3 (5.2- 7.4)	6.9 (5.8- 8.1)	7.9 (6.6- 9.6)	8.8 (7.3- 10.5)	~	~	~	~
Los Angeles	5.5 (4.3- 7.1)	6.2 (4.9- 7.8)	6.6 (5.1- 8.5)	7.3 (5.6- 9.3)	~	~	~	~
Hawaii	3.9 (3.4- 4.5)	4.3 (3.7- 4.9)	4.9 (4.2- 5.7)	5.3 (4.6- 6.1)	~	~	~	~
Oregon	5.2 (3.6- 7.5)	5.3 (3.6- 7.5)	~	~	~	~	~	~
Washington	7.2 (5.9- 8.6)	7.2 (6.0- 8.6)	7.4 (6.1- 9.0)	7.4 (6.1- 8.9)	~	~	~	~
Seattle-Puget Sound	6.1 (5.3- 7.1)	6.4 (5.5- 7.4)	6.4 (5.5- 7.5)	6.6 (5.6- 7.7)	~	~	~	~
	5.9 (4.9- 7.1)	6.3 (5.3- 7.5)	6.5 (5.4- 7.9)	7.0 (5.8- 8.3)	~	~	~	~

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Invasive cancers only

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.18.1: Cancer of the Urinary Bladder. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*†

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	38.3 (37.9– 38.7)	33.5 (33.2– 33.9)	40.2 (39.8– 40.7)	37.7 (37.3– 38.1)	17.9 (16.9– 19.0)	10.0 (9.5– 10.6)	
Northeast	43.0 (42.1– 43.9)	40.0 (39.2– 40.8)	45.4 (44.5– 46.3)	45.6 (44.6– 46.5)	17.6 (15.6– 19.8)	10.4 (9.3– 11.6)	
New England	45.3 (43.5– 47.2)	41.5 (39.8– 43.2)	46.0 (44.1– 48.0)	44.5 (42.7– 46.4)	26.1 (18.2– 36.8)	11.0 (7.9– 14.9)	
Connecticut	46.0 (42.6– 49.6)	43.5 (40.4– 46.9)	46.7 (43.2– 50.4)	47.1 (43.6– 50.9)	32.2 (19.5– 51.1)	15.1 (9.4– 22.8)	
Maine							
Massachusetts	43.5 (41.0– 46.1)	39.5 (37.3– 41.8)	44.0 (41.5– 46.7)	42.6 (40.1– 45.1)	21.3 (11.7– 37.2)	8.6 (5.0– 13.8)	
New Hampshire	43.1 (37.3– 49.5)	35.5 (30.9– 40.7)	43.6 (37.8– 50.1)	36.4 (31.6– 41.7)	~	~	
Rhode Island	55.8 (49.2– 63.1)	54.3 (47.9– 61.4)	57.2 (50.4– 64.8)	58.6 (51.6– 66.2)	~	~	
Vermont							
Middle Atlantic	42.3 (41.3– 43.3)	39.6 (38.7– 40.5)	45.2 (44.1– 46.3)	45.9 (44.8– 47.0)	16.7 (14.7– 19.0)	10.3 (9.1– 11.6)	
New Jersey	45.9 (43.7– 48.2)	41.7 (39.8– 43.8)	50.3 (47.8– 52.8)	50.2 (47.8– 52.8)	16.2 (12.0– 21.6)	9.9 (7.4– 12.8)	
New York	38.7 (37.3– 40.1)	34.5 (33.3– 35.8)	42.0 (40.4– 43.6)	41.2 (39.7– 42.8)	14.7 (12.2– 17.7)	8.8 (7.4– 10.5)	
Pennsylvania	45.0 (43.3– 46.8)	45.9 (44.1– 47.7)	46.2 (44.4– 48.1)	49.4 (47.4– 51.3)	22.1 (17.5– 27.7)	15.0 (11.9– 18.6)	
Midwest							
East North Central	37.8 (36.1– 39.6)	31.3 (29.9– 32.7)	39.1 (37.2– 41.0)	34.7 (33.1– 36.4)	18.8 (14.9– 23.4)	10.2 (8.2– 12.5)	
Illinois							
Indiana	41.9 (39.9– 44.0)	35.4 (33.8– 37.2)	44.1 (42.0– 46.4)	39.3 (37.4– 41.3)	22.6 (18.3– 27.9)	14.4 (11.6– 17.6)	
Michigan	41.5 (38.4– 44.8)	34.9 (32.4– 37.7)	46.5 (42.8– 50.5)	41.8 (38.6– 45.3)	23.8 (18.7– 30.1)	16.6 (13.1– 20.8)	
Detroit	41.2 (39.4– 43.1)	36.3 (34.7– 38.0)	41.4 (39.4– 43.4)	38.0 (36.3– 39.8)	22.1 (17.5– 27.8)	13.7 (10.9– 17.0)	
Ohio	37.6 (35.1– 40.3)	33.5 (31.3– 35.8)	38.3 (35.8– 41.0)	35.9 (33.6– 38.4)	~	~	
Wisconsin	36.8 (35.5– 38.2)	33.2 (32.1– 34.5)	37.1 (35.8– 38.5)	35.0 (33.7– 36.3)	18.7 (13.6– 25.3)	9.6 (7.1– 12.7)	
West North Central	38.6 (35.4– 42.1)	38.2 (35.1– 41.6)	38.2 (35.0– 41.7)	38.8 (35.5– 42.2)	~	~	
Iowa	34.7 (31.4– 38.3)	30.7 (27.8– 33.9)	34.3 (30.9– 37.9)	31.7 (28.6– 35.0)	~	~	
Kansas	37.5 (34.8– 40.3)	31.5 (29.3– 33.9)	37.2 (34.5– 40.1)	32.9 (30.5– 35.4)	~	~	
Minnesota	34.7 (32.3– 37.2)	31.6 (29.5– 33.8)	36.1 (33.6– 38.7)	34.5 (32.2– 37.0)	15.6 (10.2– 23.2)	9.7 (6.5– 14.0)	
Missouri	40.4 (35.9– 45.3)	36.7 (32.6– 41.1)	40.5 (36.0– 45.5)	38.3 (34.0– 42.9)	~	~	
Nebraska					~	~	
North Dakota	40.5 (33.6– 48.3)	39.4 (32.7– 46.9)	40.8 (33.9– 48.9)	41.7 (34.7– 49.8)	~	~	
South Dakota							
South							
South Atlantic	33.9 (27.8– 41.3)	30.3 (24.9– 36.5)	34.6 (28.1– 42.7)	34.5 (28.1– 42.0)	~	~	
Delaware	19.9 (14.4– 27.0)	18.0 (13.1– 24.2)	~	~	18.7 (12.2– 27.8)	17.8 (11.6– 26.0)	
District of Columbia	41.4 (40.1– 42.8)	49.5 (47.9– 51.2)	43.4 (41.9– 44.9)	57.9 (56.0– 59.8)	12.6 (9.6– 16.5)	6.4 (5.0– 8.0)	
Florida							
Georgia							
Atlanta	29.2 (25.1– 34.0)	15.2 (13.2– 17.5)	32.4 (27.6– 38.1)	20.5 (17.6– 23.7)	18.6 (11.2– 29.8)	5.8 (3.7– 8.7)	
Maryland	30.4 (28.0– 33.0)	24.2 (22.4– 26.2)	34.7 (31.8– 37.9)	31.6 (29.0– 34.4)	12.1 (8.8– 16.7)	7.3 (5.4– 9.6)	
North Carolina	31.7 (29.6– 33.8)	26.3 (24.7– 28.0)	34.2 (31.9– 36.6)	31.4 (29.4– 33.6)	18.4 (14.4– 23.3)	9.9 (7.8– 12.3)	
South Carolina	34.9 (32.0– 38.2)	28.9 (26.5– 31.4)	39.5 (36.0– 43.4)	37.0 (33.8– 40.4)	16.7 (12.3– 22.4)	9.5 (7.0– 12.4)	
Virginia							
West Virginia	39.8 (35.7– 44.3)	40.6 (36.5– 45.1)	40.1 (35.9– 44.7)	41.2 (37.0– 45.8)	~	~	
East South Central							
Alabama							
Kentucky	37.0 (34.1– 40.2)	31.7 (29.2– 34.3)	37.2 (34.2– 40.5)	32.8 (30.2– 35.6)	23.5 (13.7– 38.1)	13.1 (7.8– 20.7)	
Mississippi							
Tennessee							

continued

Table 2.18.1: Cancer of the Urinary Bladder. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Males, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas	32.9 (30.1– 35.9)	25.7 (23.6– 28.0)	37.5 (34.1– 41.2)	33.4 (30.5– 36.6)	18.7 (14.4– 23.9)	10.5 (8.1– 13.2)	
Louisiana							
Oklahoma							
Texas							
West							
Mountain							
Arizona	39.3 (36.6– 42.1)	35.0 (32.6– 37.4)	40.2 (37.5– 43.2)	38.2 (35.6– 41.0)	~	~	
Colorado	32.0 (29.1– 35.1)	24.5 (22.4– 26.8)	31.7 (28.8– 34.9)	24.9 (22.7– 27.3)	~	~	
Idaho	35.5 (30.5– 41.1)	29.9 (25.8– 34.5)	35.3 (30.3– 40.9)	30.2 (26.0– 34.9)	~	~	
Montana	34.2 (28.8– 40.4)	32.8 (27.6– 38.6)	33.2 (27.9– 39.5)	33.4 (28.0– 39.5)	~	~	
Nevada							
New Mexico	27.5 (23.8– 31.8)	22.9 (19.8– 26.4)	28.7 (24.7– 33.2)	25.7 (22.2– 29.6)	~	~	
Utah	36.0 (31.5– 40.9)	22.8 (20.0– 25.9)	36.8 (32.2– 41.9)	23.9 (21.0– 27.1)	~	~	
Wyoming	42.5 (33.8– 53.1)	35.7 (28.5– 44.0)	43.3 (34.4– 54.0)	37.1 (29.7– 45.8)	~	~	
Pacific							
Alaska	34.6 (33.7– 35.5)	26.9 (26.2– 27.6)	37.0 (36.0– 38.0)	30.1 (29.3– 31.0)	18.2 (15.2– 21.7)	10.3 (8.7– 12.1)	
Alaska	33.8 (24.1– 47.5)	16.6 (12.5– 21.7)	36.4 (25.1– 52.9)	18.5 (13.6– 24.7)	~	~	
California	33.2 (32.1– 34.2)	25.0 (24.2– 25.8)	35.7 (34.5– 36.8)	28.4 (27.5– 29.3)	17.4 (14.4– 21.0)	10.2 (8.5– 12.1)	
San Francisco-Oakland	30.2 (27.6– 32.9)	25.7 (23.6– 28.1)	34.4 (31.2– 37.9)	31.7 (28.8– 34.9)	15.6 (9.9– 23.9)	10.6 (6.9– 15.7)	
San Jose-Monterey	28.9 (25.3– 32.9)	20.4 (17.9– 23.2)	31.3 (27.2– 35.9)	23.7 (20.6– 27.1)	~	~	
Los Angeles	30.3 (28.4– 32.3)	21.1 (19.8– 22.5)	33.3 (31.1– 35.7)	23.9 (22.3– 25.6)	17.6 (13.2– 23.2)	11.5 (8.7– 15.0)	
Hawaii	20.9 (17.3– 25.1)	20.2 (16.7– 24.1)	40.2 (29.9– 53.1)	30.7 (22.9– 40.3)	~	~	
Oregon	42.8 (39.6– 46.3)	39.7 (36.7– 42.9)	42.6 (39.3– 46.2)	40.8 (37.7– 44.2)	~	~	
Washington	40.6 (38.0– 43.3)	32.9 (30.8– 35.1)	39.7 (37.1– 42.5)	34.0 (31.7– 36.3)	~	~	
Seattle-Puget Sound	43.1 (39.9– 46.6)	34.1 (31.6– 36.8)	44.0 (40.6– 47.6)	37.1 (34.2– 40.1)	~	~	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Includes invasive and *in situ*

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.1. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.

Table 2.18.2: Cancer of the Urinary Bladder, Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria^{*†}

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
United States	10.0 (9.8– 10.2)	11.4 (11.2– 11.6)	10.4 (10.2– 10.6)	12.7 (12.4– 12.9)	7.1 (6.6– 7.7)	5.4 (5.0– 5.8)	
Northeast	11.6 (11.2– 12.0)	14.2 (13.8– 14.7)	12.2 (11.7– 12.6)	16.0 (15.4– 16.5)	6.4 (5.5– 7.4)	5.3 (4.6– 6.2)	
New England	12.9 (12.0– 13.7)	15.5 (14.5– 16.6)	12.9 (12.1– 13.9)	16.5 (15.4– 17.6)	7.9 (4.7– 12.5)	4.8 (2.9– 7.4)	
Connecticut	13.3 (11.8– 15.1)	16.2 (14.4– 18.3)	13.7 (12.1– 15.6)	17.6 (15.6– 19.9)	~	~	
Maine							
Massachusetts	12.3 (11.2– 13.5)	14.8 (13.5– 16.2)	12.3 (11.1– 13.5)	15.7 (14.2– 17.2)	~	~	
New Hampshire	12.5 (9.9– 15.6)	13.3 (10.6– 16.5)	12.3 (9.7– 15.4)	13.3 (10.5– 16.5)	~	~	
Rhode Island	14.9 (12.1– 18.3)	20.2 (16.5– 24.5)	15.2 (12.3– 18.8)	21.5 (17.6– 26.2)	~	~	
Vermont							
Middle Atlantic	11.2 (10.8– 11.7)	13.8 (13.3– 14.4)	11.9 (11.4– 12.4)	15.8 (15.2– 16.4)	6.3 (5.4– 7.4)	5.4 (4.6– 6.3)	
New Jersey	11.1 (10.2– 12.1)	13.4 (12.3– 14.5)	11.8 (10.8– 12.9)	15.6 (14.3– 17.0)	6.6 (4.5– 9.4)	5.1 (3.5– 7.2)	
New York	11.0 (10.4– 11.6)	13.0 (12.3– 13.7)	12.0 (11.3– 12.8)	15.5 (14.6– 16.4)	4.9 (3.8– 6.2)	4.2 (3.3– 5.3)	
Pennsylvania	11.6 (10.9– 12.4)	15.5 (14.5– 16.5)	11.8 (11.0– 12.6)	16.4 (15.3– 17.5)	9.7 (7.3– 12.6)	9.0 (6.8– 11.7)	
Midwest							
East North Central							
Illinois	10.2 (9.5– 11.0)	11.4 (10.6– 12.3)	10.4 (9.6– 11.3)	12.5 (11.5– 13.5)	9.3 (7.2– 11.8)	6.8 (5.3– 8.7)	
Indiana							
Michigan	10.9 (10.0– 11.8)	11.9 (11.0– 12.9)	11.1 (10.2– 12.1)	12.9 (11.9– 14.1)	8.8 (6.6– 11.5)	7.0 (5.3– 9.2)	
Detroit	11.1 (9.8– 12.6)	12.4 (11.0– 14.0)	11.5 (10.0– 13.1)	14.0 (12.2– 16.0)	9.8 (7.2– 13.1)	8.4 (6.2– 11.2)	
Ohio	10.8 (10.0– 11.6)	12.5 (11.7– 13.5)	10.7 (9.9– 11.6)	13.1 (12.1– 14.1)	8.0 (5.8– 10.7)	6.5 (4.8– 8.7)	
Wisconsin	10.4 (9.3– 11.7)	11.9 (10.6– 13.3)	10.7 (9.5– 11.9)	12.7 (11.4– 14.2)	~	~	
West North Central							
Iowa	8.8 (8.2– 9.4)	10.4 (9.7– 11.0)	8.7 (8.1– 9.3)	10.7 (10.0– 11.4)	6.8 (4.4– 10.1)	4.8 (3.1– 7.0)	
Kansas	8.4 (7.1– 9.8)	10.8 (9.2– 12.6)	8.2 (6.9– 9.7)	10.8 (9.2– 12.7)	~	~	
Minnesota	10.2 (8.6– 11.9)	12.2 (10.4– 14.2)	9.8 (8.3– 11.6)	12.3 (10.5– 14.5)	~	~	
Missouri	10.1 (8.9– 11.4)	11.0 (9.7– 12.4)	10.0 (8.8– 11.3)	11.5 (10.1– 12.9)	~	~	
Missouri	7.7 (6.8– 8.8)	9.1 (8.0– 10.3)	7.7 (6.8– 8.8)	9.5 (8.3– 10.8)	7.7 (4.7– 12.0)	6.1 (3.7– 9.4)	
Nebraska	7.3 (5.7– 9.3)	8.8 (6.9– 11.1)	7.3 (5.7– 9.3)	9.0 (7.1– 11.4)	~	~	
North Dakota					~	~	
South Dakota	8.9 (6.2– 12.6)	11.3 (7.9– 15.7)	8.8 (6.0– 12.6)	11.7 (8.2– 16.3)	~	~	
South							
South Atlantic							
Delaware	13.2 (10.0– 17.2)	14.5 (10.9– 18.8)	13.2 (9.7– 17.7)	16.1 (11.8– 21.3)	~	~	
District of Columbia	11.7 (8.3– 16.3)	14.8 (10.6– 20.1)	~	~	10.6 (6.9– 16.5)	14.9 (9.8– 21.9)	
Florida	11.1 (10.4– 11.7)	15.9 (15.1– 16.8)	11.5 (10.8– 12.2)	18.3 (17.2– 19.3)	7.9 (6.0– 10.2)	5.2 (4.0– 6.6)	
Georgia							
Atlanta	9.8 (8.0– 12.0)	7.2 (5.9– 8.8)	9.1 (7.1– 11.5)	8.1 (6.3– 10.2)	13.2 (8.7– 19.4)	6.2 (4.1– 9.0)	
Maryland	9.8 (8.7– 11.0)	10.2 (9.1– 11.5)	10.7 (9.3– 12.2)	13.0 (11.4– 14.8)	5.2 (3.4– 7.7)	3.5 (2.3– 5.1)	
North Carolina	8.4 (7.5– 9.3)	9.3 (8.4– 10.3)	9.2 (8.3– 10.3)	11.2 (10.0– 12.5)	4.5 (3.1– 6.3)	3.8 (2.6– 5.3)	
South Carolina	7.6 (6.5– 8.8)	8.2 (7.0– 9.6)	7.6 (6.4– 9.1)	9.4 (7.8– 11.1)	7.1 (4.9– 9.8)	5.8 (4.1– 8.1)	
Virginia							
West Virginia	13.8 (11.8– 16.1)	17.9 (15.3– 20.9)	13.7 (11.6– 16.1)	17.9 (15.2– 20.9)	~	~	
East South Central							
Alabama							
Kentucky	8.9 (7.8– 10.3)	10.1 (8.7– 11.5)	8.9 (7.7– 10.3)	10.3 (8.9– 11.8)	~	~	
Mississippi							
Tennessee							

continued

Table 2.18.2: Cancer of the Urinary Bladder. Invasive Cancer Incidence Rates by U.S. Census Region and Division, State and Metropolitan Area, and Race (All Races, White, Black), United States: SEER and NPCR Registries that Meet Quality Criteria*† (continued)

Females, 1999

Area	All Races			White		Black	
	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	Age-Adjusted Rate ^{‡§} (CI)	Crude Rate [†] (CI)	
West South Central							
Arkansas	7.4 (6.3– 8.6)	7.6 (6.5– 8.8)	7.7 (6.4– 9.1)	8.9 (7.5– 10.6)	6.6 (4.7– 9.1)	5.2 (3.7– 7.1)	
Louisiana							
Oklahoma							
Texas							
West							
Mountain							
Arizona	9.3 (8.2– 10.6)	10.2 (9.0– 11.6)	9.7 (8.5– 11.0)	11.3 (9.9– 12.8)	~	~	
Colorado	9.1 (7.8– 10.5)	8.7 (7.4– 10.0)	9.4 (8.0– 10.9)	9.2 (7.9– 10.7)	~	~	
Idaho	7.2 (5.2– 9.7)	7.2 (5.2– 9.6)	7.3 (5.3– 9.9)	7.4 (5.4– 9.9)	~	~	
Montana	10.4 (7.8– 13.7)	12.4 (9.3– 16.1)	10.5 (7.8– 13.9)	13.2 (9.9– 17.2)	~	~	
Nevada							
New Mexico	7.9 (6.1– 10.0)	7.8 (6.1– 9.9)	8.4 (6.5– 10.7)	8.9 (6.9– 11.3)	~	~	
Utah	8.3 (6.5– 10.5)	6.5 (5.1– 8.2)	8.4 (6.6– 10.7)	6.8 (5.3– 8.6)	~	~	
Wyoming	9.2 (5.8– 14.1)	9.6 (6.1– 14.5)	9.4 (5.9– 14.4)	10.1 (6.4– 15.1)	~	~	
Pacific							
Alaska	8.5 (8.1– 8.9)	8.5 (8.1– 8.9)	9.1 (8.6– 9.5)	9.6 (9.1– 10.0)	6.4 (4.9– 8.1)	4.6 (3.6– 5.9)	
Alaska	10.8 (6.0– 18.3)	5.4 (3.1– 8.8)	~	~	~	~	
California	8.2 (7.8– 8.7)	8.1 (7.7– 8.6)	8.9 (8.4– 9.4)	9.3 (8.8– 9.8)	6.3 (4.8– 8.2)	4.7 (3.6– 6.1)	
San Francisco-Oakland	9.0 (7.8– 10.3)	9.9 (8.6– 11.4)	9.9 (8.4– 11.6)	12.0 (10.3– 14.0)	~	~	
San Jose-Monterey	7.4 (5.8– 9.2)	7.0 (5.5– 8.7)	7.9 (6.2– 10.0)	8.1 (6.3– 10.2)	~	~	
Los Angeles	7.3 (6.5– 8.1)	7.0 (6.2– 7.8)	8.0 (7.1– 9.0)	7.9 (7.0– 8.9)	7.1 (4.9– 10.0)	6.0 (4.1– 8.4)	
Hawaii	5.4 (3.8– 7.6)	6.1 (4.3– 8.4)	~	~	~	~	
Oregon	9.8 (8.5– 11.4)	11.4 (9.8– 13.1)	9.9 (8.5– 11.5)	11.9 (10.2– 13.7)	~	~	
Washington	9.6 (8.5– 10.7)	9.8 (8.6– 11.0)	9.4 (8.3– 10.6)	10.1 (8.9– 11.4)	~	~	
Seattle-Puget Sound	10.0 (8.7– 11.5)	10.1 (8.7– 11.6)	10.4 (8.9– 12.0)	11.1 (9.6– 12.8)	~	~	

* Data are from selected statewide and metropolitan area cancer registries that meet the following data quality criteria for all invasive cancer sites combined: case ascertainment is at least 90% complete; $\geq 97\%$ of cases pass a standard set of computerized edits; $\leq 5\%$ of cases were ascertained by death certificate only; $\leq 3\%$ of cases are missing information on sex; $\leq 5\%$ of cases are missing information on race; $\leq 3\%$ of cases are missing information on age. See Appendix H for registry-specific data quality information. U.S. rates cover approximately 78% of the U.S. population.

† Includes invasive and *in situ*

‡ Rates are per 100,000 persons. Population denominators for 1999 are projected from the 1990 census and may not accurately reflect the 1999 population size. Caution should be used in interpreting rates based on these projected populations.

§ Rates are age-adjusted to the 2000 U.S. standard population.

~ Rates are suppressed if fewer than 16 cases were reported in the specific area-race category.

Notes: Cases from suppressed rates are included in the U.S. and region/division rates. Observed region/division age-adjusted incidence rates are presented for regions/divisions with $\geq 78\%$ of the population covered by registries that meet the data quality criteria specified above, and if the 95% confidence intervals around the observed region/division rates for each of four major cancers include "bias-corrected" estimated region/division rates (see technical notes) for each of those cancers. U.S. rates are as presented in Table 1.2. California, Washington, and Michigan state rates each include cases from the SEER metropolitan areas.