

Table 2.4  
All Cancer Sites (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	407.21	484.10	365.02	409.22	485.27	369.82	437.58	564.34	350.92
1980	418.09	505.83	368.14	419.53	505.21	373.43	467.45	615.07	366.53
1981	425.27	510.79	377.15	427.67	510.81	383.88	472.99	634.35	363.04
1982	424.47	511.08	376.16	427.73	512.52	383.31	465.25	622.11	359.37
1983	431.09	519.92	380.69	434.33	520.93	387.91	487.26	646.27	382.24
1984	439.98	525.43	392.45	443.61	527.70	399.48	488.26	643.87	386.15
1985	448.89	531.21	403.21	453.52	533.64	411.48	489.44	643.82	388.71
1986	451.33	538.15	402.29	456.03	542.91	409.16	493.81	643.41	396.85
1987	468.13	563.34	413.34	475.00	569.00	423.37	501.15	666.26	394.20
1988	464.02	558.49	409.48	470.34	565.03	417.99	504.58	658.07	405.10
1989	467.99	567.20	408.59	475.36	573.76	418.77	492.94	661.19	385.17
1990	482.12	592.86	415.66	488.97	599.42	424.84	522.26	699.83	409.66
1991	503.14	637.49	419.03	510.63	644.61	428.65	549.60	765.72	412.79
1992	510.75	658.40	414.92	517.07	663.86	423.53	570.42	811.69	414.18
1993	493.51	622.32	408.32	497.05	620.63	416.97	570.06	821.51	404.73
1994	483.70	589.96	413.70	487.72	587.97	423.28	558.72	784.92	409.43
1995	477.34	572.14	415.17	482.55	570.79	426.34	544.59	752.32	405.31
1996	479.57	572.97	418.47	485.35	574.69	428.40	543.02	730.68	418.53
1997	486.81	576.13	428.66	493.84	577.11	441.14	543.42	744.43	412.18
1998	488.76	573.38	434.33	496.87	576.85	446.73	541.32	728.47	420.86
1999	490.99	581.19	431.01	499.01	583.45	443.84	544.41	729.44	422.88
2000	486.97	581.10	422.70	497.17	585.06	438.18	532.25	718.64	407.52
2001	490.71	582.38	427.60	501.77	588.72	442.75	524.83	705.06	403.41
2002	488.50	575.72	428.80	498.37	582.23	441.38	538.57	703.64	428.42
2003	476.40	561.35	418.05	486.97	566.31	433.09	523.49	687.53	414.38
2004	477.58	559.48	420.93	487.44	565.03	433.92	527.86	690.38	420.83
2005	473.66	550.41	420.41	485.30	558.81	434.64	513.43	650.34	422.87
2006	477.43	557.68	420.19	489.23	565.47	434.98	513.33	652.16	418.05
2007	483.43	568.86	421.75	494.23	575.15	435.95	521.93	674.73	416.91
2008	477.57	550.88	425.42	487.77	556.17	439.40	522.08	671.31	420.72
2009	476.89	542.39	430.46	487.22	548.74	443.69	516.03	648.59	426.37
2010	467.68	532.26	421.32	478.75	539.38	435.44	498.40	622.33	412.92
2011	462.76	520.79	421.89	474.00	528.30	436.09	493.62	599.65	421.00
2012	450.51	492.78	422.35	460.65	499.41	435.69	489.68	582.31	425.87
2013	445.50	485.35	419.47	456.14	491.81	434.02	476.63	570.27	411.71
2014	444.95	479.25	423.54	458.03	488.56	440.32	459.23	536.57	407.43
2015	445.50	479.76	424.12	459.07	490.02	440.89	460.65	533.96	410.70
2016	443.84	479.73	420.40	455.44	487.02	435.96	470.21	543.91	419.27

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 2.5  
All Cancer Sites (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	461.20	540.13	409.77	468.19	544.52	419.81	501.46	648.54	403.03
1975-1979	407.21	484.10	365.02	409.22	485.27	369.82	437.58	564.34	350.92
1980	418.09	505.83	368.14	419.53	505.21	373.43	467.45	615.07	366.53
1981	425.27	510.79	377.15	427.67	510.81	383.88	472.99	634.35	363.04
1982	424.47	511.08	376.16	427.73	512.52	383.31	465.25	622.11	359.37
1983	431.09	519.92	380.69	434.33	520.93	387.91	487.26	646.27	382.24
1984	439.98	525.43	392.45	443.61	527.70	399.48	488.26	643.87	386.15
1985	448.89	531.21	403.21	453.52	533.64	411.48	489.44	643.82	388.71
1986	451.33	538.15	402.29	456.03	542.91	409.16	493.81	643.41	396.85
1987	468.13	563.34	413.34	475.00	569.00	423.37	501.15	666.26	394.20
1988	464.02	558.49	409.48	470.34	565.03	417.99	504.58	658.07	405.10
1989	467.99	567.20	408.59	475.36	573.76	418.77	492.94	661.19	385.17
1990	482.12	592.86	415.66	488.97	599.42	424.84	522.26	699.83	409.66
1991	503.14	637.49	419.03	510.63	644.61	428.65	549.60	765.72	412.79
1992	510.75	658.40	414.92	517.07	663.86	423.53	570.42	811.69	414.18
1993	493.51	622.32	408.32	497.05	620.63	416.97	570.06	821.51	404.73
1994	483.70	589.96	413.70	487.72	587.97	423.28	558.72	784.92	409.43
1995	477.34	572.14	415.17	482.55	570.79	426.34	544.59	752.32	405.31
1996	479.57	572.97	418.47	485.35	574.69	428.40	543.02	730.68	418.53
1997	486.81	576.13	428.66	493.84	577.11	441.14	543.42	744.43	412.18
1998	488.76	573.38	434.33	496.87	576.85	446.73	541.32	728.47	420.86
1999	490.99	581.19	431.01	499.01	583.45	443.84	544.41	729.44	422.88
2000	486.97	581.10	422.70	497.17	585.06	438.18	532.25	718.64	407.52
2001	490.71	582.38	427.60	501.77	588.72	442.75	524.83	705.06	403.41
2002	488.50	575.72	428.80	498.37	582.23	441.38	538.57	703.64	428.42
2003	476.40	561.35	418.05	486.97	566.31	433.09	523.49	687.53	414.38
2004	477.58	559.48	420.93	487.44	565.03	433.92	527.86	690.38	420.83
2005	473.66	550.41	420.41	485.30	558.81	434.64	513.43	650.34	422.87
2006	477.43	557.68	420.19	489.23	565.47	434.98	513.33	652.16	418.05
2007	483.43	568.86	421.75	494.23	575.15	435.95	521.93	674.73	416.91
2008	477.02	550.25	424.93	487.08	555.38	438.77	520.73	669.56	419.64
2009	475.79	541.15	429.47	485.84	547.18	442.43	513.41	645.24	424.24
2010	466.06	530.44	419.86	476.72	537.09	433.59	494.56	617.48	409.78
2011	460.64	518.42	419.95	471.32	525.30	433.63	488.61	593.55	416.76
2012	447.92	489.96	419.91	457.38	495.88	432.60	483.39	574.63	420.53
2013	442.43	482.02	416.55	452.27	487.65	430.32	469.30	561.30	405.50
2014	440.65	474.62	419.45	452.67	482.81	435.18	450.18	525.78	399.54
2015	439.78	473.58	418.69	451.96	482.37	434.11	449.20	520.43	400.68
2016	434.25	469.20	411.46	443.54	474.11	424.72	451.19	521.67	402.51

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 2.6  
All Cancer Sites (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	192.55	241.97	159.64	190.78	238.23	159.20	234.91	318.12	183.06
1975-1979	202.75	264.24	162.54	199.61	259.14	161.35	244.15	334.74	179.95
1980	206.96	271.08	165.75	203.27	265.03	164.17	256.18	353.91	189.25
1981	206.40	269.78	165.90	202.64	263.27	164.55	256.77	358.65	187.47
1982	208.32	272.89	167.45	204.54	266.28	166.11	260.36	364.86	190.17
1983	209.21	274.09	168.27	205.17	267.22	166.69	263.75	369.32	193.24
1984	210.91	275.08	170.55	206.66	267.55	169.02	268.15	377.93	195.67
1985	211.35	275.68	170.96	207.25	268.25	169.58	268.06	377.82	196.31
1986	211.79	276.04	171.59	207.73	268.83	170.01	269.45	378.92	199.05
1987	211.91	276.34	171.54	207.78	268.96	169.87	271.12	383.24	199.91
1988	212.62	276.89	172.53	208.48	269.46	170.94	271.59	384.17	200.36
1989	214.30	278.50	174.25	209.96	270.25	172.88	275.87	395.28	200.87
1990	214.95	279.82	174.65	210.41	271.48	172.89	279.30	399.14	205.39
1991	215.06	279.15	175.30	210.62	271.19	173.41	278.97	395.85	207.39
1992	213.46	276.51	174.39	209.24	268.91	172.58	274.93	389.20	205.80
1993	213.45	275.89	174.55	209.16	267.89	172.82	277.09	394.76	206.29
1994	211.74	272.12	174.11	207.83	264.73	172.62	271.96	385.20	204.06
1995	209.89	268.50	173.35	206.09	261.46	171.73	269.51	379.02	204.53
1996	207.00	263.75	171.21	203.40	256.83	169.85	265.28	373.70	200.94
1997	203.55	258.13	169.00	199.94	251.58	167.35	262.14	363.18	202.53
1998	200.82	253.63	166.93	197.56	247.62	165.38	255.66	353.13	198.38
1999	200.72	252.75	167.24	197.75	247.14	165.92	253.80	349.23	197.54
2000	198.79	248.46	166.70	196.37	243.37	165.98	248.07	341.20	193.21
2001	196.29	245.05	164.61	193.98	240.31	163.75	244.34	334.14	192.12
2002	194.36	241.63	163.38	192.38	237.62	162.56	240.81	325.80	191.45
2003	190.89	235.81	161.16	189.10	232.16	160.40	235.16	314.60	188.76
2004	186.84	230.27	157.92	185.21	226.60	157.41	228.98	307.30	183.51
2005	185.23	228.09	156.46	183.87	224.94	156.04	224.83	300.33	180.94
2006	182.03	222.56	154.63	181.10	220.02	154.52	218.93	290.16	177.31
2007	179.26	219.33	152.00	178.30	216.64	151.91	216.23	286.57	175.47
2008	176.32	215.34	149.27	175.69	213.21	149.37	209.37	275.26	170.41
2009	173.40	211.17	147.12	173.03	209.33	147.48	205.39	268.91	167.41
2010	171.74	208.80	145.73	171.35	207.15	145.85	202.85	264.14	166.19
2011	168.74	204.30	143.50	168.54	203.32	143.45	199.07	253.63	166.06
2012	166.33	200.56	141.78	166.42	199.89	142.03	194.10	247.19	161.73
2013	163.18	196.45	139.22	163.54	195.97	139.83	189.66	240.26	158.50
2014	161.27	193.54	137.87	161.83	193.51	138.48	186.28	233.94	156.89
2015	158.70	189.97	135.84	159.46	190.19	136.60	180.85	226.55	152.49
2016	155.87	185.89	133.95	156.71	186.28	134.72	178.18	221.61	151.34

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 3.4  
Cancer of the Brain and Other Nervous System (Invasive)  
Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	5.95	7.19	4.91	6.34	7.66	5.23	3.71	4.66	2.93
1980	6.30	7.58	5.24	6.81	8.20	5.65	3.14	3.35	2.92
1981	6.51	8.07	5.20	6.90	8.44	5.63	5.02	7.24	3.16
1982	6.42	7.93	5.24	6.92	8.57	5.64	3.71	4.40	3.05
1983	6.31	7.60	5.19	6.88	8.20	5.74	2.75	3.79	1.84
1984	6.12	7.18	5.20	6.49	7.64	5.49	4.53	5.34	3.88
1985	6.94	8.50	5.66	7.43	9.07	6.07	4.88	5.62	4.18
1986	6.85	8.06	5.82	7.38	8.60	6.34	4.06	4.75	3.41
1987	7.01	8.16	6.05	7.60	8.73	6.68	4.25	5.63	3.13
1988	6.83	7.89	5.91	7.39	8.58	6.37	4.45	4.48	4.38
1989	6.87	8.52	5.46	7.44	9.25	5.91	4.90	5.93	4.12
1990	7.05	8.11	6.18	7.59	8.75	6.63	4.33	5.18	3.64
1991	6.96	8.57	5.65	7.62	9.29	6.24	3.62	4.43	3.09
1992	6.98	8.67	5.61	7.65	9.48	6.17	3.66	4.13	3.28
1993	6.76	8.06	5.67	7.38	8.87	6.15	3.93	3.97	3.80
1994	6.63	7.99	5.44	7.14	8.57	5.90	4.24	4.52	3.97
1995	6.50	7.97	5.30	7.04	8.60	5.76	4.11	5.15	3.31
1996	6.69	8.24	5.35	7.29	8.98	5.81	4.06	5.21	3.37
1997	6.77	8.11	5.63	7.43	8.88	6.18	4.03	5.30	3.12
1998	6.65	7.76	5.73	7.27	8.45	6.28	4.25	4.56	4.08
1999	6.93	8.37	5.70	7.69	9.22	6.37	3.75	5.05	2.70
2000	6.82	8.24	5.67	7.53	9.12	6.22	4.48	5.47	3.74
2001	6.65	7.99	5.55	7.32	8.68	6.17	4.10	5.20	3.38
2002	6.77	8.11	5.67	7.54	8.96	6.36	4.25	5.50	3.36
2003	6.67	7.65	5.85	7.27	8.37	6.33	4.67	4.49	4.65
2004	6.85	8.01	5.79	7.64	8.90	6.48	4.17	4.66	3.61
2005	6.76	7.82	5.85	7.49	8.71	6.42	4.54	4.97	4.16
2006	6.44	7.85	5.22	7.20	8.79	5.75	3.78	4.31	3.47
2007	6.61	7.78	5.58	7.33	8.77	6.04	4.60	4.87	4.36
2008	6.74	8.02	5.68	7.61	8.92	6.51	3.58	4.48	2.97
2009	6.87	8.03	5.85	7.61	8.99	6.36	4.69	4.32	4.89
2010	6.60	7.59	5.73	7.31	8.31	6.39	4.24	4.54	3.99
2011	6.70	7.91	5.64	7.52	8.73	6.43	4.48	4.95	4.09
2012	6.58	7.76	5.56	7.32	8.57	6.21	4.55	5.97	3.56
2013	6.58	7.60	5.68	7.29	8.32	6.37	4.12	5.09	3.30
2014	6.40	7.76	5.19	7.22	8.70	5.87	3.58	4.06	3.11
2015	6.70	8.02	5.55	7.55	9.01	6.25	3.71	4.08	3.44
2016	6.27	7.56	5.12	7.05	8.44	5.79	3.89	4.56	3.38

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 3.5  
Cancer of the Brain and Other Nervous System (Invasive)  
Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	6.59	7.88	5.51	7.22	8.61	6.04	4.08	4.79	3.51
1975-1979	5.95	7.19	4.91	6.34	7.66	5.23	3.71	4.66	2.93
1980	6.30	7.58	5.24	6.81	8.20	5.65	3.14	3.35	2.92
1981	6.51	8.07	5.20	6.90	8.44	5.63	5.02	7.24	3.16
1982	6.42	7.93	5.24	6.92	8.57	5.64	3.71	4.40	3.05
1983	6.31	7.60	5.19	6.88	8.20	5.74	2.75	3.79	1.84
1984	6.12	7.18	5.20	6.49	7.64	5.49	4.53	5.34	3.88
1985	6.94	8.50	5.66	7.43	9.07	6.07	4.88	5.62	4.18
1986	6.85	8.06	5.82	7.38	8.60	6.34	4.06	4.75	3.41
1987	7.01	8.16	6.05	7.60	8.73	6.68	4.25	5.63	3.13
1988	6.83	7.89	5.91	7.39	8.58	6.37	4.45	4.48	4.38
1989	6.87	8.52	5.46	7.44	9.25	5.91	4.90	5.93	4.12
1990	7.05	8.11	6.18	7.59	8.75	6.63	4.33	5.18	3.64
1991	6.96	8.57	5.65	7.62	9.29	6.24	3.62	4.43	3.09
1992	6.98	8.67	5.61	7.65	9.48	6.17	3.66	4.13	3.28
1993	6.76	8.06	5.67	7.38	8.87	6.15	3.93	3.97	3.80
1994	6.63	7.99	5.44	7.14	8.57	5.90	4.24	4.52	3.97
1995	6.50	7.97	5.30	7.04	8.60	5.76	4.11	5.15	3.31
1996	6.69	8.24	5.35	7.29	8.98	5.81	4.06	5.21	3.37
1997	6.77	8.11	5.63	7.43	8.88	6.18	4.03	5.30	3.12
1998	6.65	7.76	5.73	7.27	8.45	6.28	4.25	4.56	4.08
1999	6.93	8.37	5.70	7.69	9.22	6.37	3.75	5.05	2.70
2000	6.82	8.24	5.67	7.53	9.12	6.22	4.48	5.47	3.74
2001	6.65	7.99	5.55	7.32	8.68	6.17	4.10	5.20	3.38
2002	6.77	8.11	5.67	7.54	8.96	6.36	4.25	5.50	3.36
2003	6.67	7.65	5.85	7.27	8.37	6.33	4.67	4.49	4.65
2004	6.85	8.01	5.79	7.64	8.90	6.48	4.17	4.66	3.61
2005	6.76	7.82	5.85	7.49	8.71	6.42	4.54	4.97	4.16
2006	6.44	7.85	5.22	7.20	8.79	5.75	3.78	4.31	3.47
2007	6.61	7.78	5.58	7.33	8.77	6.04	4.60	4.87	4.36
2008	6.73	8.01	5.68	7.60	8.91	6.50	3.57	4.47	2.97
2009	6.85	8.01	5.83	7.59	8.97	6.35	4.67	4.30	4.86
2010	6.58	7.56	5.70	7.28	8.28	6.36	4.21	4.51	3.96
2011	6.67	7.87	5.61	7.48	8.68	6.39	4.43	4.90	4.05
2012	6.54	7.71	5.52	7.28	8.52	6.17	4.50	5.91	3.52
2013	6.53	7.54	5.63	7.24	8.26	6.32	4.06	5.00	3.26
2014	6.33	7.67	5.13	7.14	8.60	5.81	3.52	3.98	3.06
2015	6.59	7.90	5.46	7.44	8.87	6.15	3.63	3.98	3.37
2016	6.10	7.36	4.99	6.85	8.21	5.63	3.76	4.40	3.27

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 3.6  
Cancer of the Brain and Other Nervous System (Invasive)  
Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.50	5.50	3.68	4.83	5.88	3.96	2.63	3.23	2.17
1975-1979	4.33	5.29	3.54	4.55	5.55	3.73	2.59	3.28	2.05
1980	4.37	5.45	3.47	4.62	5.77	3.66	2.46	3.04	2.02
1981	4.36	5.33	3.59	4.60	5.58	3.80	2.55	3.31	1.98
1982	4.43	5.38	3.67	4.67	5.67	3.88	2.64	3.37	2.09
1983	4.39	5.31	3.64	4.66	5.64	3.85	2.49	2.91	2.18
1984	4.55	5.57	3.74	4.82	5.86	4.00	2.56	3.35	1.94
1985	4.57	5.60	3.75	4.85	5.92	3.99	2.54	3.22	2.02
1986	4.53	5.59	3.68	4.78	5.90	3.87	2.77	3.47	2.27
1987	4.71	5.68	3.93	4.99	6.00	4.17	2.89	3.55	2.36
1988	4.72	5.89	3.79	4.98	6.21	4.00	2.91	3.63	2.39
1989	4.73	5.82	3.88	5.01	6.15	4.12	2.73	3.47	2.23
1990	4.87	5.97	3.99	5.16	6.30	4.24	2.97	3.66	2.42
1991	4.95	6.01	4.11	5.27	6.37	4.37	2.84	3.42	2.41
1992	4.85	5.88	4.03	5.17	6.26	4.30	2.82	3.41	2.39
1993	4.79	5.87	3.91	5.09	6.23	4.17	2.83	3.59	2.27
1994	4.84	5.88	3.97	5.17	6.26	4.25	2.69	3.23	2.26
1995	4.67	5.67	3.86	4.97	6.02	4.11	2.77	3.40	2.33
1996	4.73	5.74	3.91	5.07	6.14	4.19	2.64	3.24	2.21
1997	4.68	5.66	3.90	4.99	6.03	4.13	2.87	3.30	2.55
1998	4.68	5.70	3.83	5.00	6.06	4.12	2.73	3.39	2.24
1999	4.64	5.66	3.81	4.98	6.04	4.10	2.73	3.28	2.29
2000	4.53	5.58	3.67	4.86	5.96	3.93	2.70	3.28	2.24
2001	4.45	5.49	3.59	4.78	5.88	3.86	2.58	3.13	2.19
2002	4.45	5.46	3.62	4.78	5.83	3.90	2.63	3.20	2.21
2003	4.40	5.36	3.62	4.74	5.73	3.92	2.66	3.36	2.11
2004	4.31	5.22	3.53	4.64	5.59	3.82	2.46	2.98	2.04
2005	4.34	5.31	3.53	4.69	5.69	3.84	2.52	3.23	1.99
2006	4.17	5.12	3.39	4.53	5.53	3.67	2.34	2.91	1.93
2007	4.21	5.10	3.47	4.58	5.52	3.78	2.37	2.75	2.07
2008	4.28	5.25	3.46	4.64	5.65	3.77	2.48	3.15	2.01
2009	4.35	5.27	3.57	4.73	5.72	3.88	2.53	2.98	2.17
2010	4.25	5.22	3.42	4.59	5.63	3.68	2.54	3.08	2.15
2011	4.25	5.20	3.44	4.64	5.66	3.76	2.37	2.82	2.01
2012	4.40	5.43	3.52	4.78	5.84	3.85	2.67	3.44	2.14
2013	4.34	5.22	3.60	4.74	5.65	3.95	2.43	3.16	1.89
2014	4.43	5.41	3.58	4.81	5.87	3.87	2.80	3.30	2.42
2015	4.42	5.37	3.61	4.82	5.83	3.93	2.60	3.15	2.17
2016	4.49	5.48	3.63	4.91	5.97	3.99	2.57	3.19	2.11

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.5  
Cancer of the Breast (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	69.08	1.11	126.55	70.57	1.10	130.09	68.50	1.75	119.25
1975-1979	56.65	0.96	102.13	58.19	0.94	104.81	49.71	1.44	87.94
1980	56.90	0.90	102.23	58.54	0.93	105.13	50.59	-	89.48
1981	59.33	1.00	106.35	61.22	0.93	109.87	54.41	-	94.35
1982	59.24	0.98	106.50	61.05	0.94	109.90	53.93	-	93.58
1983	61.88	1.04	111.11	63.70	1.13	114.46	58.99	-	103.64
1984	64.48	0.93	115.99	66.56	0.94	119.87	58.39	-	102.41
1985	69.13	0.96	124.27	70.97	0.98	127.76	64.21	-	111.89
1986	70.46	0.95	126.84	72.29	0.96	130.39	66.44	-	115.33
1987	74.79	0.96	134.51	77.80	0.98	140.25	63.13	-	109.53
1988	73.13	1.24	131.39	75.60	1.16	136.27	69.19	2.76	119.01
1989	70.79	1.12	127.30	73.41	1.07	132.45	60.75	-	105.23
1990	73.20	1.13	131.91	75.36	1.15	136.27	68.65	-	118.79
1991	74.11	1.12	133.88	76.64	1.17	138.92	67.54	-	117.61
1992	73.07	1.04	132.12	74.74	1.02	135.75	71.76	-	124.31
1993	71.35	1.08	129.23	73.14	1.04	133.10	68.95	-	119.69
1994	72.11	1.13	131.01	74.28	1.08	135.70	70.83	-	122.87
1995	72.90	0.96	132.73	75.13	0.92	137.63	71.77	-	124.01
1996	73.42	1.31	133.83	75.40	1.32	138.26	71.83	-	124.59
1997	75.64	1.10	138.09	77.60	1.06	142.65	73.01	-	126.17
1998	77.37	1.07	141.48	79.61	1.12	146.51	72.40	-	126.27
1999	77.21	0.96	141.55	79.59	0.95	147.10	73.16	-	126.65
2000	74.44	1.16	136.62	77.27	1.14	143.01	69.24	2.86	119.29
2001	75.67	1.23	138.90	78.32	1.23	145.05	67.39	1.66	116.73
2002	73.76	1.13	135.92	75.96	1.12	141.29	71.74	1.95	124.48
2003	69.01	1.33	127.14	70.89	1.34	131.89	71.39	1.85	123.92
2004	69.49	1.21	128.29	70.84	1.23	132.08	71.64	1.61	124.57
2005	68.47	1.05	126.73	70.24	1.15	131.38	68.28	-	119.12
2006	68.29	1.12	126.49	69.71	1.16	130.56	72.23	1.54	125.83
2007	69.20	1.09	128.38	70.56	1.12	132.51	72.08	1.67	125.10
2008	69.18	1.17	128.57	69.96	1.19	131.56	73.94	1.43	128.86
2009	70.47	1.16	130.99	71.45	1.22	134.43	74.39	-	129.74
2010	68.31	1.22	127.14	69.37	1.11	130.85	71.05	2.93	123.14
2011	70.03	1.33	130.49	70.84	1.26	133.81	73.99	2.72	128.63
2012	69.84	1.33	130.16	70.24	1.33	132.73	76.74	2.14	133.48
2013	70.06	1.18	131.01	70.38	1.21	133.46	74.06	1.96	129.16
2014	69.98	1.17	131.22	70.33	1.11	133.82	72.74	1.84	127.64
2015	70.00	1.18	131.42	70.37	1.18	134.13	73.74	1.59	129.14
2016	69.16	1.21	129.81	69.54	1.05	132.71	73.71	3.02	128.21

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.6  
Cancer of the Breast (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	15.36	0.31	27.17	15.20	0.30	27.00	19.37	0.54	32.93
1975-1979	18.03	0.35	31.74	18.17	0.34	32.00	17.98	0.53	31.16
1980	18.04	0.30	31.68	18.15	0.30	31.93	18.37	0.42	31.68
1981	18.20	0.32	31.92	18.28	0.31	32.12	18.95	0.46	32.55
1982	18.39	0.33	32.19	18.42	0.32	32.31	19.68	0.56	33.75
1983	18.33	0.31	32.07	18.36	0.29	32.20	19.57	0.50	33.53
1984	18.79	0.29	32.90	18.76	0.28	32.90	20.97	0.47	35.94
1985	18.84	0.34	32.98	18.88	0.34	33.11	20.35	0.43	34.85
1986	18.76	0.28	32.87	18.76	0.27	32.93	20.69	0.42	35.44
1987	18.66	0.34	32.66	18.57	0.34	32.57	21.53	0.47	36.73
1988	18.98	0.33	33.20	18.85	0.28	33.09	22.35	0.88	37.78
1989	19.00	0.33	33.23	18.95	0.33	33.23	21.56	0.45	36.61
1990	18.93	0.28	33.14	18.79	0.26	33.02	22.49	0.52	38.00
1991	18.66	0.28	32.69	18.46	0.27	32.45	22.62	0.44	38.28
1992	18.07	0.31	31.64	17.89	0.30	31.43	21.88	0.45	37.09
1993	17.98	0.36	31.39	17.74	0.34	31.09	22.62	0.66	38.04
1994	17.67	0.35	30.92	17.40	0.34	30.56	22.44	0.60	37.74
1995	17.44	0.35	30.55	17.11	0.32	30.09	22.70	0.77	38.18
1996	16.83	0.34	29.49	16.52	0.31	29.05	22.09	0.72	37.13
1997	16.07	0.32	28.21	15.67	0.30	27.62	22.25	0.63	37.43
1998	15.67	0.32	27.54	15.32	0.31	27.01	21.08	0.56	35.53
1999	15.18	0.34	26.61	14.77	0.32	25.98	20.93	0.69	35.21
2000	15.19	0.37	26.64	14.86	0.35	26.17	20.48	0.63	34.36
2001	14.77	0.35	26.01	14.37	0.33	25.43	20.52	0.65	34.52
2002	14.54	0.31	25.62	14.13	0.29	25.02	20.32	0.61	34.14
2003	14.31	0.31	25.27	13.89	0.30	24.66	20.24	0.47	34.10
2004	13.82	0.29	24.49	13.44	0.28	23.94	19.11	0.56	32.29
2005	13.61	0.29	24.14	13.18	0.28	23.49	19.37	0.49	32.81
2006	13.25	0.29	23.56	12.87	0.29	23.02	18.73	0.47	31.62
2007	12.90	0.28	22.96	12.51	0.27	22.40	18.51	0.45	31.36
2008	12.66	0.31	22.55	12.26	0.29	21.99	18.37	0.60	30.96
2009	12.43	0.28	22.24	12.09	0.28	21.76	17.78	0.41	30.19
2010	12.26	0.30	21.92	11.85	0.28	21.33	17.77	0.59	30.16
2011	12.01	0.30	21.54	11.60	0.28	20.93	17.70	0.50	30.16
2012	11.82	0.26	21.27	11.44	0.25	20.71	17.22	0.42	29.39
2013	11.53	0.30	20.74	11.19	0.28	20.29	16.57	0.55	28.20
2014	11.40	0.29	20.55	11.03	0.27	20.03	16.45	0.54	28.05
2015	11.25	0.28	20.31	10.88	0.26	19.79	16.14	0.54	27.58
2016	11.07	0.27	20.03	10.74	0.26	19.58	15.94	0.44	27.32

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.



Table 4.7  
Cancer of the Female Breast (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-1979	102.13	39.34	266.57	104.81	39.77	275.12	87.94	39.33	215.22
1980	102.23	37.75	271.08	105.13	38.28	280.19	89.48	37.69	225.12
1981	106.35	39.19	282.22	109.87	40.03	292.75	94.35	38.86	239.64
1982	106.50	40.57	279.14	109.90	41.19	289.80	93.58	38.02	239.06
1983	111.11	40.26	296.64	114.46	40.84	307.22	103.64	41.60	266.09
1984	115.99	42.39	308.72	119.87	43.14	320.79	102.41	44.66	253.62
1985	124.27	44.36	333.52	127.76	44.33	346.22	111.89	45.87	284.76
1986	126.84	44.52	342.40	130.39	45.32	353.15	115.33	45.64	297.82
1987	134.51	45.54	367.48	140.25	46.47	385.80	109.53	43.09	283.48
1988	131.39	44.00	360.24	136.27	44.90	375.52	119.01	43.00	318.06
1989	127.30	43.47	346.82	132.45	44.54	362.65	105.23	42.33	269.96
1990	131.91	45.63	357.84	136.27	45.38	374.29	118.79	48.93	301.72
1991	133.88	47.29	360.63	138.92	47.31	378.80	117.61	51.15	291.67
1992	132.12	43.47	364.24	135.75	43.65	376.91	124.31	46.75	327.42
1993	129.23	42.87	355.36	133.10	43.22	368.44	119.69	45.39	314.25
1994	131.01	42.45	362.90	135.70	42.81	378.92	122.87	47.74	319.62
1995	132.73	43.25	367.03	137.63	43.76	383.42	124.01	45.73	329.00
1996	133.83	43.63	370.01	138.26	44.05	384.96	124.59	44.44	334.48
1997	138.09	43.57	385.61	142.65	44.06	400.84	126.17	44.87	339.08
1998	141.48	45.53	392.72	146.51	45.42	411.23	126.27	47.40	332.78
1999	141.55	43.88	397.33	147.10	45.07	414.26	126.65	44.11	342.78
2000	136.62	43.51	380.44	143.01	43.96	402.38	119.29	45.14	313.47
2001	138.90	44.04	387.30	145.05	44.84	407.44	116.73	40.02	317.63
2002	135.92	42.92	379.44	141.29	43.53	397.29	124.48	41.67	341.31
2003	127.14	43.46	346.27	131.89	44.35	361.12	123.92	43.48	334.54
2004	128.29	45.03	346.33	132.08	44.85	360.51	124.57	48.21	324.54
2005	126.73	44.17	342.91	131.38	44.52	358.84	119.12	45.84	311.00
2006	126.49	44.21	341.94	130.56	45.09	354.36	125.83	45.30	336.69
2007	128.38	45.39	345.68	132.51	45.73	359.74	125.10	45.64	333.17
2008	128.66	45.63	346.08	131.66	45.62	356.97	129.10	45.42	348.24
2009	131.18	45.59	355.29	134.63	46.06	366.56	130.17	45.96	350.70
2010	127.42	44.38	344.87	131.15	45.18	356.27	123.78	44.63	331.04
2011	130.87	45.63	354.07	134.20	45.63	366.13	129.55	48.85	340.87
2012	130.63	44.45	356.32	133.22	45.09	363.99	134.67	42.68	375.53
2013	131.58	45.64	356.64	134.06	46.08	364.44	130.46	42.32	361.26
2014	131.96	46.13	356.72	134.59	45.91	366.78	129.33	46.22	346.98
2015	132.35	46.69	356.66	135.20	46.72	366.91	131.29	46.16	354.23
2016	131.18	45.47	355.61	134.33	45.55	366.80	131.31	48.37	348.50

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 4.8  
Cancer of the Female Breast (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-2016	126.55	43.75	343.37	130.09	44.10	355.24	119.25	44.55	314.87
1975-1979	102.13	39.34	266.57	104.81	39.77	275.12	87.94	39.33	215.22
1980	102.23	37.75	271.08	105.13	38.28	280.19	89.48	37.69	225.12
1981	106.35	39.19	282.22	109.87	40.03	292.75	94.35	38.86	239.64
1982	106.50	40.57	279.14	109.90	41.19	289.80	93.58	38.02	239.06
1983	111.11	40.26	296.64	114.46	40.84	307.22	103.64	41.60	266.09
1984	115.99	42.39	308.72	119.87	43.14	320.79	102.41	44.66	253.62
1985	124.27	44.36	333.52	127.76	44.33	346.22	111.89	45.87	284.76
1986	126.84	44.52	342.40	130.39	45.32	353.15	115.33	45.64	297.82
1987	134.51	45.54	367.48	140.25	46.47	385.80	109.53	43.09	283.48
1988	131.39	44.00	360.24	136.27	44.90	375.52	119.01	43.00	318.06
1989	127.30	43.47	346.82	132.45	44.54	362.65	105.23	42.33	269.96
1990	131.91	45.63	357.84	136.27	45.38	374.29	118.79	48.93	301.72
1991	133.88	47.29	360.63	138.92	47.31	378.80	117.61	51.15	291.67
1992	132.12	43.47	364.24	135.75	43.65	376.91	124.31	46.75	327.42
1993	129.23	42.87	355.36	133.10	43.22	368.44	119.69	45.39	314.25
1994	131.01	42.45	362.90	135.70	42.81	378.92	122.87	47.74	319.62
1995	132.73	43.25	367.03	137.63	43.76	383.42	124.01	45.73	329.00
1996	133.83	43.63	370.01	138.26	44.05	384.96	124.59	44.44	334.48
1997	138.09	43.57	385.61	142.65	44.06	400.84	126.17	44.87	339.08
1998	141.48	45.53	392.72	146.51	45.42	411.23	126.27	47.40	332.78
1999	141.55	43.88	397.33	147.10	45.07	414.26	126.65	44.11	342.78
2000	136.62	43.51	380.44	143.01	43.96	402.38	119.29	45.14	313.47
2001	138.90	44.04	387.30	145.05	44.84	407.44	116.73	40.02	317.63
2002	135.92	42.92	379.44	141.29	43.53	397.29	124.48	41.67	341.31
2003	127.14	43.46	346.27	131.89	44.35	361.12	123.92	43.48	334.54
2004	128.29	45.03	346.33	132.08	44.85	360.51	124.57	48.21	324.54
2005	126.73	44.17	342.91	131.38	44.52	358.84	119.12	45.84	311.00
2006	126.49	44.21	341.94	130.56	45.09	354.36	125.83	45.30	336.69
2007	128.38	45.39	345.68	132.51	45.73	359.74	125.10	45.64	333.17
2008	128.57	45.60	345.83	131.56	45.58	356.71	128.86	45.34	347.57
2009	130.99	45.52	354.78	134.43	45.99	366.02	129.74	45.81	349.50
2010	127.14	44.29	344.12	130.85	45.07	355.48	123.14	44.43	329.26
2011	130.49	45.50	353.05	133.81	45.50	365.05	128.63	48.52	338.38
2012	130.16	44.29	355.02	132.73	44.93	362.64	133.48	42.35	372.09
2013	131.01	45.44	355.08	133.46	45.87	362.81	129.16	41.89	357.68
2014	131.22	45.88	354.70	133.82	45.66	364.68	127.64	45.63	342.38
2015	131.42	46.38	354.11	134.13	46.35	364.00	129.14	45.41	348.37
2016	129.81	45.02	351.86	132.71	45.02	362.35	128.21	47.24	340.23

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.9  
Cancer of the Female Breast (Invasive)  
Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Age

Year of Death:	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-2016	27.17	6.46	81.42	27.00	6.11	81.71	32.93	9.98	93.04
1975-1979	31.74	8.80	91.81	32.00	8.64	93.18	31.16	10.84	84.38
1980	31.68	8.57	92.22	31.93	8.39	93.56	31.68	10.82	86.31
1981	31.92	8.46	93.33	32.12	8.20	94.77	32.55	11.48	87.74
1982	32.19	8.42	94.43	32.31	8.19	95.46	33.75	11.19	92.83
1983	32.07	8.16	94.70	32.20	7.89	95.85	33.53	11.17	92.10
1984	32.90	8.58	96.57	32.90	8.22	97.55	35.94	12.55	97.21
1985	32.98	8.56	96.90	33.11	8.30	98.09	34.85	12.04	94.58
1986	32.87	8.64	96.32	32.93	8.26	97.53	35.44	12.86	94.58
1987	32.66	8.44	96.08	32.57	7.99	96.93	36.73	12.94	99.04
1988	33.20	8.39	98.18	33.09	8.01	98.78	37.78	12.71	103.42
1989	33.23	8.42	98.22	33.23	8.06	99.16	36.61	12.41	99.96
1990	33.14	8.32	98.14	33.02	7.99	98.55	38.00	11.99	106.13
1991	32.69	8.16	96.91	32.45	7.73	97.15	38.28	12.31	106.29
1992	31.64	7.77	94.15	31.43	7.37	94.45	37.09	12.03	102.73
1993	31.39	7.41	94.18	31.09	6.99	94.20	38.04	11.65	107.14
1994	30.92	7.37	92.58	30.56	6.92	92.47	37.74	11.70	105.91
1995	30.55	7.29	91.46	30.09	6.80	91.07	38.18	11.71	107.49
1996	29.49	6.95	88.53	29.05	6.40	88.35	37.13	11.74	103.61
1997	28.21	6.71	84.53	27.62	6.22	83.64	37.43	11.03	106.56
1998	27.54	6.34	83.05	27.01	5.82	82.50	35.53	10.65	100.68
1999	26.61	5.75	81.22	25.98	5.20	80.40	35.21	10.27	100.52
2000	26.64	5.89	80.99	26.17	5.37	80.64	34.36	9.94	98.31
2001	26.01	5.86	78.77	25.43	5.36	77.98	34.52	9.85	99.12
2002	25.62	5.63	77.97	25.02	5.07	77.28	34.14	10.02	97.31
2003	25.27	5.58	76.85	24.66	5.08	75.90	34.10	9.62	98.19
2004	24.49	5.21	74.99	23.94	4.67	74.38	32.29	9.26	92.60
2005	24.14	5.20	73.74	23.49	4.65	72.83	32.81	9.46	93.95
2006	23.56	5.05	72.01	23.02	4.58	71.32	31.62	8.88	91.17
2007	22.96	4.77	70.60	22.40	4.28	69.85	31.36	8.55	91.10
2008	22.55	4.74	69.20	21.99	4.32	68.23	30.96	8.23	90.47
2009	22.24	4.81	67.88	21.76	4.48	67.01	30.19	7.96	88.39
2010	21.92	4.53	67.46	21.33	4.07	66.52	30.16	8.02	88.13
2011	21.54	4.47	66.26	20.93	4.03	65.19	30.16	7.83	88.62
2012	21.27	4.59	64.94	20.71	4.15	64.06	29.39	7.89	85.68
2013	20.74	4.41	63.48	20.29	4.07	62.75	28.20	7.32	82.88
2014	20.55	4.37	62.92	20.03	3.96	62.11	28.05	7.54	81.75
2015	20.31	4.27	62.32	19.79	3.93	61.31	27.58	6.93	81.64
2016	20.03	4.38	61.02	19.58	4.01	60.36	27.32	7.42	79.43

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.10  
Cancer of the Female Breast (*In Situ*)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
Year of Diagnosis:									
1975-2016	24.96	10.19	63.63	24.76	10.26	62.71	25.26	8.67	68.69
1975-1979	4.86	2.84	10.16	4.96	2.93	10.27	3.69	1.99	8.13
1980	4.80	2.96	9.63	5.02	3.07	10.12	3.71	-	-
1981	4.97	2.64	11.05	4.95	2.52	11.31	4.11	-	8.84
1982	5.30	2.73	12.03	5.34	2.71	12.24	5.55	2.73	12.94
1983	6.09	3.03	14.09	6.21	3.02	14.57	5.41	-	13.20
1984	8.62	4.79	18.66	9.19	5.20	19.64	6.35	2.37	16.77
1985	11.53	5.91	26.24	12.09	6.27	27.33	8.28	3.45	20.92
1986	13.62	6.77	31.56	14.22	7.19	32.63	9.53	5.12	21.09
1987	17.38	7.82	42.39	18.25	8.27	44.36	12.20	5.64	29.40
1988	17.58	8.15	42.27	18.11	8.50	43.28	16.03	7.06	39.52
1989	16.54	7.02	41.48	17.10	7.27	42.84	14.64	5.52	38.53
1990	19.14	8.38	47.30	19.88	8.70	49.16	15.15	5.54	40.32
1991	19.79	8.79	48.62	20.51	8.92	50.87	15.52	7.29	37.08
1992	21.44	9.01	54.00	22.17	9.23	56.04	19.04	6.93	50.76
1993	20.70	8.36	53.04	21.36	8.79	54.30	16.62	6.06	44.27
1994	22.31	8.74	57.84	22.87	9.00	59.18	20.10	7.56	52.96
1995	24.72	9.62	64.24	25.09	9.99	64.64	22.80	6.50	65.50
1996	25.39	9.85	66.07	25.97	9.86	68.16	22.91	7.68	62.80
1997	28.36	11.08	73.63	28.92	11.22	75.25	28.52	11.49	73.11
1998	32.76	12.00	87.13	33.72	12.31	89.76	30.89	10.96	83.09
1999	32.75	12.00	87.08	33.23	12.24	88.20	29.94	10.56	80.68
2000	32.86	11.82	87.95	33.91	12.52	89.92	30.12	8.04	87.93
2001	33.69	11.59	91.57	34.20	12.01	92.30	32.03	9.25	91.69
2002	34.05	11.89	92.07	34.58	12.28	92.99	28.89	8.85	81.37
2003	32.49	12.03	86.07	33.50	12.52	88.44	30.22	9.50	84.48
2004	33.24	12.80	86.76	33.99	13.02	88.89	30.76	10.26	84.45
2005	32.65	12.52	85.36	33.54	13.01	87.28	32.48	10.50	90.02
2006	33.27	13.83	84.16	33.61	14.41	83.89	36.23	11.74	100.37
2007	35.41	14.38	90.45	35.86	14.84	90.88	33.75	11.16	92.89
2008	36.88	14.12	96.48	37.19	14.73	96.00	36.88	11.73	102.73
2009	37.01	14.42	96.17	37.77	14.98	97.44	35.68	11.46	99.10
2010	33.92	13.16	88.28	34.27	13.22	89.40	33.19	12.23	88.08
2011	35.61	14.42	91.13	36.00	14.82	91.47	34.07	10.83	94.93
2012	33.44	13.62	85.36	33.10	13.95	83.26	35.29	11.70	97.05
2013	34.88	14.44	88.40	34.37	14.50	86.41	36.90	12.21	101.56
2014	34.56	14.37	87.42	33.78	14.53	84.18	37.47	12.12	103.86
2015	33.49	13.11	86.88	32.68	13.07	84.05	35.61	10.30	101.87
2016	31.89	13.04	81.24	31.35	13.33	78.53	34.29	11.81	93.13

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 5.4  
Cancer of the Cervix Uteri (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-1979	13.45	8.90	25.38	12.00	8.05	22.34	28.76	15.62	63.17
1980	12.24	8.12	23.04	10.99	7.33	20.57	23.43	13.50	49.44
1981	10.75	7.35	19.67	9.50	6.58	17.17	24.00	13.61	51.22
1982	10.63	7.14	19.77	9.41	6.70	16.51	21.82	10.15	52.38
1983	10.50	7.30	18.88	9.58	6.74	17.04	18.84	11.89	37.03
1984	11.05	8.01	19.00	9.94	7.33	16.77	21.12	12.59	43.45
1985	10.24	7.09	18.47	9.15	6.75	15.45	19.11	9.68	43.80
1986	10.78	7.81	18.57	9.69	7.27	16.02	18.32	10.63	38.46
1987	10.02	7.11	17.65	8.99	6.88	14.54	18.88	8.70	45.52
1988	10.61	7.90	17.70	9.54	7.47	14.97	19.09	10.45	41.71
1989	10.70	7.93	17.96	10.05	7.88	15.71	15.63	7.88	35.92
1990	10.67	8.07	17.50	9.94	7.71	15.79	16.90	9.90	35.23
1991	10.06	7.03	17.98	9.26	6.77	15.78	16.33	9.22	34.96
1992	9.94	7.47	16.41	9.43	7.22	15.22	14.17	10.03	24.98
1993	9.64	7.04	16.45	9.16	6.98	14.86	13.74	8.87	26.48
1994	9.44	6.87	16.19	8.68	6.77	13.71	14.03	6.94	32.58
1995	8.91	6.84	14.32	7.97	6.52	11.75	13.76	7.99	28.86
1996	9.64	7.39	15.53	8.74	7.13	12.95	14.58	8.33	30.93
1997	9.24	7.12	14.79	8.39	6.94	12.19	13.86	8.19	28.71
1998	9.13	7.10	14.44	8.47	6.91	12.55	13.20	8.87	24.53
1999	8.28	6.54	12.81	7.81	6.57	11.04	13.50	8.10	27.66
2000	7.72	5.87	12.57	7.43	5.92	11.39	10.17	6.32	20.24
2001	7.97	5.90	13.37	7.39	5.84	11.45	11.33	5.11	27.62
2002	7.46	5.72	12.01	7.07	5.78	10.46	10.47	6.55	20.74
2003	7.34	5.80	11.39	6.89	5.71	9.99	10.86	6.20	23.04
2004	7.18	5.56	11.42	6.84	5.68	9.90	10.81	6.85	21.20
2005	6.87	5.48	10.50	6.66	5.55	9.58	8.82	5.46	17.64
2006	6.97	5.56	10.64	6.82	5.69	9.78	8.73	5.16	18.09
2007	6.66	5.24	10.37	6.50	5.58	8.91	8.58	4.51	19.24
2008	6.74	5.35	10.39	6.47	5.33	9.47	9.60	6.11	18.74
2009	6.92	5.61	10.35	6.87	5.98	9.20	8.06	4.39	17.68
2010	6.80	5.46	10.33	6.70	5.61	9.53	8.22	5.13	16.31
2011	6.74	5.56	9.83	6.79	5.94	9.02	7.87	5.22	14.81
2012	6.66	5.43	9.86	6.45	5.51	8.91	7.79	5.07	14.90
2013	6.41	5.45	8.93	6.28	5.66	7.90	8.05	5.44	14.89
2014	6.91	5.82	9.74	6.97	6.32	8.66	6.79	4.61	12.51
2015	6.77	5.56	9.95	7.09	6.02	9.89	6.22	3.73	12.71
2016	6.50	5.38	9.44	6.40	5.53	8.67	7.55	5.02	14.19

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 5.5  
Cancer of the Cervix Uteri (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
Year of Diagnosis:									
1975-2016	8.84	6.65	14.56	8.34	6.55	13.01	13.10	7.67	27.31
1975-1979	13.45	8.90	25.38	12.00	8.05	22.34	28.76	15.62	63.17
1980	12.24	8.12	23.04	10.99	7.33	20.57	23.43	13.50	49.44
1981	10.75	7.35	19.67	9.50	6.58	17.17	24.00	13.61	51.22
1982	10.63	7.14	19.77	9.41	6.70	16.51	21.82	10.15	52.38
1983	10.50	7.30	18.88	9.58	6.74	17.04	18.84	11.89	37.03
1984	11.05	8.01	19.00	9.94	7.33	16.77	21.12	12.59	43.45
1985	10.24	7.09	18.47	9.15	6.75	15.45	19.11	9.68	43.80
1986	10.78	7.81	18.57	9.69	7.27	16.02	18.32	10.63	38.46
1987	10.02	7.11	17.65	8.99	6.88	14.54	18.88	8.70	45.52
1988	10.61	7.90	17.70	9.54	7.47	14.97	19.09	10.45	41.71
1989	10.70	7.93	17.96	10.05	7.88	15.71	15.63	7.88	35.92
1990	10.67	8.07	17.50	9.94	7.71	15.79	16.90	9.90	35.23
1991	10.06	7.03	17.98	9.26	6.77	15.78	16.33	9.22	34.96
1992	9.94	7.47	16.41	9.43	7.22	15.22	14.17	10.03	24.98
1993	9.64	7.04	16.45	9.16	6.98	14.86	13.74	8.87	26.48
1994	9.44	6.87	16.19	8.68	6.77	13.71	14.03	6.94	32.58
1995	8.91	6.84	14.32	7.97	6.52	11.75	13.76	7.99	28.86
1996	9.64	7.39	15.53	8.74	7.13	12.95	14.58	8.33	30.93
1997	9.24	7.12	14.79	8.39	6.94	12.19	13.86	8.19	28.71
1998	9.13	7.10	14.44	8.47	6.91	12.55	13.20	8.87	24.53
1999	8.28	6.54	12.81	7.81	6.57	11.04	13.50	8.10	27.66
2000	7.72	5.87	12.57	7.43	5.92	11.39	10.17	6.32	20.24
2001	7.97	5.90	13.37	7.39	5.84	11.45	11.33	5.11	27.62
2002	7.46	5.72	12.01	7.07	5.78	10.46	10.47	6.55	20.74
2003	7.34	5.80	11.39	6.89	5.71	9.99	10.86	6.20	23.04
2004	7.18	5.56	11.42	6.84	5.68	9.90	10.81	6.85	21.20
2005	6.87	5.48	10.50	6.66	5.55	9.58	8.82	5.46	17.64
2006	6.97	5.56	10.64	6.82	5.69	9.78	8.73	5.16	18.09
2007	6.66	5.24	10.37	6.50	5.58	8.91	8.58	4.51	19.24
2008	6.74	5.35	10.39	6.47	5.32	9.46	9.59	6.10	18.72
2009	6.91	5.60	10.33	6.86	5.97	9.18	8.04	4.37	17.63
2010	6.79	5.45	10.31	6.68	5.60	9.50	8.18	5.11	16.23
2011	6.72	5.54	9.81	6.77	5.92	8.99	7.83	5.19	14.73
2012	6.64	5.42	9.83	6.42	5.48	8.87	7.73	5.04	14.80
2013	6.38	5.43	8.89	6.24	5.63	7.86	7.98	5.39	14.76
2014	6.87	5.79	9.68	6.92	6.28	8.60	6.72	4.56	12.38
2015	6.72	5.52	9.88	7.02	5.96	9.79	6.12	3.68	12.53
2016	6.40	5.29	9.31	6.26	5.41	8.51	7.38	4.90	13.87

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 5.6  
Cancer of the Cervix Uteri (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Age

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
Year of Death:									
1975-2016	3.13	1.51	7.36	2.79	1.38	6.47	6.22	2.57	15.78
1975-1979	5.07	2.11	12.79	4.34	1.75	11.12	12.11	4.97	30.81
1980	4.45	1.96	10.97	3.77	1.60	9.45	10.78	4.64	26.86
1981	4.32	1.83	10.86	3.74	1.57	9.39	9.89	3.74	26.00
1982	4.10	1.77	10.20	3.51	1.54	8.66	9.77	3.63	25.85
1983	4.04	1.80	9.92	3.43	1.53	8.40	9.76	3.87	25.20
1984	3.94	1.81	9.51	3.36	1.54	8.12	9.27	3.92	23.28
1985	3.82	1.71	9.36	3.27	1.49	7.92	8.98	3.36	23.70
1986	3.82	1.77	9.20	3.22	1.47	7.80	9.23	4.00	22.93
1987	3.64	1.74	8.61	3.13	1.51	7.40	8.22	3.60	20.31
1988	3.61	1.69	8.63	3.10	1.52	7.24	8.15	2.98	21.72
1989	3.59	1.70	8.54	3.05	1.50	7.10	8.60	3.26	22.57
1990	3.66	1.79	8.56	3.19	1.58	7.40	7.77	3.41	19.18
1991	3.49	1.70	8.20	3.01	1.51	6.97	7.65	3.15	19.41
1992	3.52	1.74	8.19	3.01	1.53	6.89	8.07	3.38	20.37
1993	3.41	1.67	7.99	2.95	1.48	6.78	7.69	3.14	19.63
1994	3.38	1.66	7.86	3.00	1.50	6.93	6.71	2.85	16.82
1995	3.24	1.63	7.47	2.82	1.45	6.39	6.98	2.97	17.50
1996	3.21	1.58	7.49	2.87	1.47	6.54	6.20	2.52	15.85
1997	3.14	1.61	7.16	2.76	1.45	6.20	6.47	2.84	15.98
1998	2.98	1.57	6.66	2.65	1.45	5.77	5.91	2.55	14.72
1999	2.83	1.37	6.66	2.57	1.33	5.82	5.41	1.88	14.64
2000	2.78	1.36	6.52	2.47	1.25	5.68	5.43	2.17	13.97
2001	2.67	1.37	6.09	2.43	1.32	5.36	4.83	1.92	12.45
2002	2.55	1.29	5.87	2.28	1.20	5.12	4.96	2.06	12.56
2003	2.49	1.24	5.75	2.24	1.16	5.06	4.65	1.92	11.79
2004	2.42	1.26	5.45	2.18	1.18	4.80	4.50	1.91	11.28
2005	2.42	1.24	5.51	2.21	1.17	4.94	4.36	1.94	10.67
2006	2.42	1.24	5.53	2.21	1.16	4.97	4.31	1.88	10.65
2007	2.42	1.21	5.56	2.21	1.15	4.99	4.29	1.88	10.62
2008	2.37	1.21	5.42	2.17	1.14	4.86	4.15	1.77	10.37
2009	2.29	1.22	5.08	2.08	1.15	4.50	4.14	1.81	10.24
2010	2.26	1.16	5.15	2.09	1.13	4.63	3.89	1.67	9.69
2011	2.33	1.21	5.25	2.14	1.15	4.73	3.96	1.74	9.77
2012	2.29	1.19	5.16	2.15	1.16	4.74	3.69	1.65	9.01
2013	2.33	1.23	5.22	2.17	1.20	4.71	3.86	1.63	9.71
2014	2.26	1.22	4.99	2.14	1.22	4.56	3.58	1.53	8.97
2015	2.26	1.18	5.09	2.18	1.24	4.63	3.32	1.26	8.70
2016	2.24	1.18	5.00	2.18	1.23	4.67	3.11	1.23	8.04

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.5  
Cancer of the Colon and Rectum (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	61.57	72.07	54.53	62.29	73.21	55.10	58.74	64.39	54.86
1980	63.75	74.55	56.54	63.95	74.88	56.84	70.83	79.71	64.23
1981	64.24	75.80	56.49	64.86	76.65	57.14	62.83	72.89	55.97
1982	62.78	75.20	54.49	63.45	76.28	55.03	61.25	68.97	55.92
1983	63.66	75.55	55.61	64.24	76.51	56.02	66.79	75.80	61.13
1984	64.80	77.65	56.05	65.81	79.26	56.71	62.54	70.57	58.20
1985	66.30	79.19	57.31	67.19	80.20	58.36	64.13	74.56	56.39
1986	64.18	77.79	54.69	64.57	78.89	54.71	64.68	72.98	58.88
1987	62.74	77.53	52.68	62.92	78.25	52.64	66.28	77.63	59.01
1988	61.38	75.20	51.81	61.56	75.78	51.75	63.00	72.41	56.62
1989	61.70	74.99	52.42	61.95	75.45	52.65	64.52	79.41	54.76
1990	60.70	74.36	51.28	60.66	74.75	51.03	66.87	75.15	61.66
1991	59.48	72.91	50.04	59.28	73.09	49.64	65.71	76.42	58.27
1992	58.00	70.41	49.22	57.82	70.66	48.70	65.66	78.59	57.57
1993	56.79	68.44	48.30	56.32	68.08	47.79	64.44	78.14	55.15
1994	55.64	66.28	47.73	55.39	66.33	47.19	64.51	75.45	57.98
1995	54.06	63.85	46.93	53.71	63.41	46.63	62.04	71.49	55.98
1996	54.79	65.61	46.68	54.74	65.94	46.35	58.67	66.74	53.12
1997	56.40	68.07	47.94	56.34	67.84	48.00	64.73	77.77	56.26
1998	56.80	67.10	49.33	56.69	67.24	49.00	63.36	74.49	56.38
1999	55.48	65.77	47.83	55.32	65.90	47.22	63.52	72.47	58.30
2000	54.15	63.70	46.78	53.83	63.12	46.55	64.55	74.40	58.15
2001	53.62	63.09	46.23	53.04	62.71	45.38	64.69	75.53	57.69
2002	53.17	61.55	46.64	52.34	60.40	45.91	63.31	74.32	56.56
2003	50.82	59.52	43.94	50.25	58.59	43.48	62.77	75.87	54.68
2004	49.91	58.63	43.18	49.05	57.89	42.10	62.58	74.48	54.72
2005	47.82	55.24	41.92	47.40	55.09	41.15	58.71	65.41	55.05
2006	46.89	53.32	41.67	46.16	52.69	40.69	58.40	65.62	53.68
2007	46.41	53.34	40.72	45.52	52.20	39.97	57.93	66.04	52.16
2008	45.31	51.58	40.12	44.52	50.53	39.48	54.92	64.55	47.90
2009	43.38	49.06	38.73	42.11	47.56	37.52	53.95	61.14	49.45
2010	41.05	47.15	36.11	39.76	45.79	34.71	49.93	57.06	45.27
2011	39.75	45.53	35.02	38.66	43.81	34.33	48.46	56.15	43.11
2012	38.90	44.05	34.54	38.06	42.67	34.03	48.26	57.19	41.90
2013	37.65	43.42	32.81	36.50	41.24	32.47	47.31	58.98	39.06
2014	38.76	44.01	34.34	38.01	42.67	33.99	44.98	51.70	40.18
2015	37.42	42.09	33.30	36.73	41.18	32.72	45.67	53.74	39.52
2016	38.02	43.07	33.71	37.12	41.72	33.07	46.88	52.54	42.89

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

<sup>a</sup>

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Table 6.6  
Cancer of the Colon and Rectum (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	52.15	60.87	45.51	52.20	60.90	45.54	58.02	67.09	51.95
1975-1979	61.57	72.07	54.53	62.29	73.21	55.10	58.74	64.39	54.86
1980	63.75	74.55	56.54	63.95	74.88	56.84	70.83	79.71	64.23
1981	64.24	75.80	56.49	64.86	76.65	57.14	62.83	72.89	55.97
1982	62.78	75.20	54.49	63.45	76.28	55.03	61.25	68.97	55.92
1983	63.66	75.55	55.61	64.24	76.51	56.02	66.79	75.80	61.13
1984	64.80	77.65	56.05	65.81	79.26	56.71	62.54	70.57	58.20
1985	66.30	79.19	57.31	67.19	80.20	58.36	64.13	74.56	56.39
1986	64.18	77.79	54.69	64.57	78.89	54.71	64.68	72.98	58.88
1987	62.74	77.53	52.68	62.92	78.25	52.64	66.28	72.63	59.01
1988	61.38	75.20	51.81	61.56	75.78	51.75	63.00	72.41	56.62
1989	61.70	74.99	52.42	61.95	75.45	52.65	64.52	79.41	54.76
1990	60.70	74.36	51.28	60.66	74.75	51.03	66.87	75.15	61.66
1991	59.48	72.91	50.04	59.28	73.09	49.64	65.71	76.42	58.27
1992	58.00	70.41	49.22	57.82	70.66	48.70	65.66	78.59	57.57
1993	56.79	68.44	48.30	56.32	68.08	47.79	64.44	78.14	55.15
1994	55.64	66.28	47.73	55.39	66.33	47.19	64.51	75.45	57.98
1995	54.06	63.85	46.93	53.71	63.41	46.63	62.04	71.49	55.98
1996	54.79	65.61	46.68	54.74	65.94	46.35	58.67	66.74	53.12
1997	56.40	68.07	47.94	56.34	67.84	48.00	64.73	77.77	56.26
1998	56.80	67.10	49.33	56.69	67.24	49.00	63.36	74.49	56.38
1999	55.48	65.77	47.83	55.32	65.90	47.22	63.52	72.47	58.30
2000	54.15	63.70	46.78	53.83	63.12	46.55	64.55	74.40	58.15
2001	53.62	63.09	46.23	53.04	62.71	45.38	64.69	75.53	57.69
2002	53.17	61.55	46.64	52.34	60.40	45.91	63.31	74.32	56.56
2003	50.82	59.52	43.94	50.25	58.59	43.48	62.77	75.87	54.68
2004	49.91	58.63	43.18	49.05	57.89	42.10	62.58	74.48	54.72
2005	47.82	55.24	41.92	47.40	55.09	41.15	58.71	65.41	55.05
2006	46.89	53.32	41.67	46.16	52.69	40.69	58.40	65.62	53.68
2007	46.41	53.34	40.72	45.52	52.20	39.97	57.93	66.04	52.16
2008	45.29	51.55	40.09	44.50	50.50	39.46	54.81	64.42	47.80
2009	43.33	49.01	38.68	42.06	47.50	37.47	53.72	60.87	49.25
2010	40.98	47.07	36.04	39.68	45.70	34.64	49.62	56.72	44.99
2011	39.66	45.42	34.94	38.56	43.69	34.24	48.06	55.68	42.76
2012	38.79	43.92	34.45	37.94	42.53	33.92	47.76	56.60	41.47
2013	37.52	43.26	32.69	36.35	41.07	32.34	46.73	58.27	38.57
2014	38.57	43.79	34.17	37.80	42.43	33.81	44.30	50.90	39.59
2015	37.15	41.80	33.06	36.42	40.83	32.45	44.80	52.77	38.73
2016	37.51	42.48	33.25	36.54	41.06	32.56	45.52	51.04	41.64

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.7  
Cancer of the Colon (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	37.49	42.15	34.00	37.53	42.20	34.01	44.19	50.01	40.42
1975-1979	43.22	48.45	39.89	43.64	49.10	40.23	44.79	48.25	42.59
1980	45.57	50.67	42.34	45.59	50.88	42.34	55.19	58.35	52.85
1981	45.47	51.32	41.73	45.88	51.91	42.13	46.85	50.60	44.36
1982	45.76	53.46	40.66	46.08	54.12	40.84	48.27	52.48	45.19
1983	46.10	53.00	41.63	46.39	53.44	41.85	50.26	58.65	45.25
1984	46.50	54.57	41.30	47.02	55.55	41.57	48.83	54.33	46.05
1985	47.87	55.06	42.93	48.39	55.61	43.62	50.08	57.66	44.33
1986	46.79	54.38	41.56	47.05	55.18	41.48	49.31	55.30	45.46
1987	45.26	54.44	39.18	45.16	54.52	39.10	51.42	59.99	45.73
1988	44.31	52.61	38.67	44.30	52.88	38.44	48.79	54.02	45.32
1989	44.38	52.46	38.96	44.47	52.52	39.17	49.00	60.41	41.70
1990	44.19	51.99	38.92	44.06	52.01	38.75	52.14	57.98	48.56
1991	43.59	51.84	37.90	43.28	51.84	37.38	51.79	57.75	47.77
1992	42.30	49.65	37.25	42.04	49.75	36.71	51.04	60.45	45.43
1993	41.60	48.95	36.32	41.07	48.62	35.67	51.11	60.58	44.93
1994	40.86	46.95	36.36	40.64	47.04	35.84	50.19	57.24	46.30
1995	39.67	45.09	35.86	39.32	44.68	35.50	48.88	55.18	45.36
1996	39.39	45.42	34.88	39.32	45.85	34.42	44.71	48.62	42.13
1997	41.10	48.36	35.99	41.09	48.22	36.13	49.41	59.35	42.73
1998	41.08	46.87	37.08	40.96	47.11	36.61	48.01	54.98	44.25
1999	39.82	45.50	35.67	39.61	45.50	35.13	48.76	55.23	45.12
2000	39.38	44.48	35.48	39.03	43.96	35.22	51.18	57.80	47.05
2001	39.27	44.17	35.52	38.89	43.95	34.94	49.42	56.65	44.83
2002	38.72	43.34	35.14	37.98	42.30	34.55	49.78	57.51	45.00
2003	36.99	41.50	33.40	36.60	40.73	33.20	48.02	57.43	42.33
2004	36.36	41.45	32.54	35.77	40.98	31.79	47.69	55.47	42.66
2005	34.48	38.01	31.71	34.23	38.03	31.15	44.91	49.46	42.77
2006	34.00	37.40	31.23	33.52	36.97	30.62	45.20	49.95	42.00
2007	33.11	36.23	30.61	32.73	35.82	30.26	42.61	46.68	39.56
2008	32.78	36.00	30.10	32.46	35.65	29.77	40.47	45.95	36.53
2009	30.99	33.47	28.98	30.26	32.72	28.17	39.55	44.26	36.98
2010	28.99	32.29	26.33	28.26	31.52	25.52	36.18	40.40	33.61
2011	28.12	31.02	25.74	27.44	29.99	25.27	36.06	41.44	32.43
2012	27.63	29.98	25.67	27.22	29.18	25.50	35.68	41.37	31.76
2013	26.57	29.20	24.37	25.91	27.93	24.20	34.83	42.07	29.80
2014	27.04	29.40	25.09	26.62	28.64	24.96	33.66	37.12	30.99
2015	26.23	28.34	24.37	25.83	27.77	24.11	33.09	38.39	29.10
2016	25.94	28.14	24.07	25.39	27.30	23.72	32.47	35.28	30.62

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.8  
Cancer of the Rectum (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	14.67	18.72	11.51	14.67	18.70	11.53	13.83	17.08	11.53
1975-1979	18.34	23.62	14.64	18.65	24.11	14.87	13.95	16.14	12.28
1980	18.18	23.88	14.20	18.37	23.99	14.50	15.65	21.36	11.38
1981	18.76	24.48	14.76	18.99	24.73	15.01	15.99	22.30	11.61
1982	17.02	21.73	13.83	17.37	22.17	14.19	12.98	16.49	10.73
1983	17.56	22.54	13.98	17.85	23.07	14.18	16.54	17.15	15.89
1984	18.30	23.08	14.74	18.79	23.72	15.14	13.71	16.24	12.15
1985	18.43	24.13	14.38	18.80	24.59	14.73	14.05	16.90	12.06
1986	17.39	23.41	13.13	17.52	23.72	13.23	15.37	17.68	13.41
1987	17.49	23.09	13.50	17.76	23.73	13.54	14.87	17.64	13.29
1988	17.07	22.59	13.14	17.26	22.90	13.30	14.21	18.38	11.30
1989	17.32	22.52	13.46	17.48	22.93	13.48	15.52	19.00	13.05
1990	16.51	22.37	12.36	16.60	22.74	12.28	14.73	17.16	13.10
1991	15.88	21.07	12.14	16.00	21.25	12.26	13.91	18.68	10.50
1992	15.70	20.75	11.97	15.78	20.91	11.99	14.62	18.14	12.14
1993	15.19	19.48	11.98	15.26	19.46	12.12	13.33	17.56	10.22
1994	14.78	19.33	11.37	14.75	19.29	11.35	14.32	18.21	11.68
1995	14.38	18.76	11.07	14.39	18.73	11.12	13.16	16.31	10.63
1996	15.40	20.19	11.79	15.42	20.10	11.93	13.95	18.12	10.99
1997	15.30	19.71	11.95	15.26	19.61	11.87	15.31	18.42	13.52
1998	15.72	20.23	12.25	15.74	20.13	12.38	15.35	19.52	12.13
1999	15.66	20.28	12.16	15.71	20.40	12.08	14.76	17.24	13.18
2000	14.77	19.23	11.30	14.79	19.16	11.33	13.37	16.60	11.10
2001	14.36	18.93	10.71	14.15	18.76	10.44	15.27	18.88	12.86
2002	14.45	18.21	11.50	14.36	18.10	11.36	13.53	16.82	11.55
2003	13.83	18.02	10.54	13.65	17.86	10.29	14.75	18.44	12.35
2004	13.55	17.18	10.64	13.28	16.91	10.31	14.89	19.01	12.06
2005	13.34	17.23	10.21	13.17	17.05	10.00	13.80	15.96	12.28
2006	12.88	15.91	10.44	12.63	15.72	10.07	13.20	15.67	11.68
2007	13.30	17.11	10.11	12.78	16.38	9.71	15.32	19.36	12.60
2008	12.51	15.55	9.99	12.04	14.84	9.69	14.34	18.47	11.27
2009	12.34	15.53	9.70	11.80	14.78	9.30	14.17	16.61	12.27
2010	11.99	14.78	9.71	11.42	14.19	9.12	13.44	16.32	11.38
2011	11.54	14.40	9.20	11.12	13.70	8.97	12.00	14.24	10.33
2012	11.15	13.94	8.77	10.72	13.36	8.41	12.08	15.23	9.71
2013	10.95	14.07	8.32	10.44	13.14	8.14	11.90	16.20	8.77
2014	11.53	14.39	9.08	11.18	13.79	8.85	10.64	13.78	8.61
2015	10.91	13.45	8.69	10.59	13.07	8.34	11.71	14.38	9.63
2016	11.57	14.34	9.18	11.14	13.76	8.84	13.05	15.75	11.02

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.9  
Cancer of the Colon and Rectum (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	20.80	24.89	17.84	20.57	24.65	17.59	25.70	31.02	22.26
1975-1979	28.31	33.35	25.00	28.47	33.72	25.04	27.75	31.10	25.49
1980	28.05	33.74	24.35	28.12	33.99	24.32	28.81	33.18	25.89
1981	27.52	32.95	23.97	27.53	33.16	23.85	28.93	32.83	26.32
1982	27.24	32.96	23.55	27.21	33.11	23.42	29.11	33.71	26.12
1983	27.12	33.08	23.23	27.13	33.32	23.11	28.67	32.90	25.82
1984	27.35	33.02	23.61	27.30	33.12	23.49	29.58	34.65	26.22
1985	26.93	32.66	23.11	26.75	32.74	22.77	30.49	34.10	28.04
1986	26.16	32.05	22.31	26.00	32.01	22.07	29.82	35.36	26.35
1987	25.89	31.91	21.95	25.68	31.85	21.63	29.85	35.10	26.48
1988	25.28	31.08	21.46	25.08	31.04	21.16	29.18	34.29	25.88
1989	25.01	30.80	21.16	24.70	30.52	20.82	30.05	36.37	26.07
1990	24.65	30.77	20.64	24.25	30.43	20.18	30.77	37.64	26.59
1991	24.01	29.64	20.30	23.63	29.35	19.85	30.02	35.80	26.50
1992	23.62	29.32	19.85	23.25	28.99	19.42	29.47	36.23	25.43
1993	23.31	28.56	19.77	22.88	28.18	19.28	29.77	35.84	26.04
1994	22.92	28.28	19.28	22.50	27.89	18.84	29.04	35.66	24.88
1995	22.59	27.65	19.14	22.11	27.16	18.64	29.54	36.30	25.47
1996	21.86	26.71	18.51	21.39	26.29	17.98	28.59	34.52	24.86
1997	21.47	26.23	18.11	20.95	25.68	17.59	28.84	35.07	24.80
1998	21.19	25.62	18.03	20.68	25.13	17.48	28.31	33.90	24.78
1999	20.93	25.48	17.75	20.43	24.99	17.20	28.51	34.50	24.70
2000	20.67	25.08	17.50	20.16	24.46	17.02	28.15	34.98	23.88
2001	20.16	24.37	17.12	19.61	23.83	16.52	27.75	33.39	24.26
2002	19.76	24.01	16.63	19.24	23.39	16.13	27.08	33.73	22.96
2003	19.15	23.18	16.19	18.61	22.62	15.62	26.64	32.49	22.92
2004	18.10	21.81	15.34	17.61	21.28	14.85	25.01	30.64	21.41
2005	17.56	21.22	14.83	17.00	20.60	14.27	25.13	30.87	21.45
2006	17.28	20.70	14.73	16.77	20.04	14.27	24.43	31.28	20.30
2007	16.91	20.23	14.36	16.43	19.66	13.90	23.56	29.29	19.87
2008	16.46	19.64	13.98	15.96	18.99	13.54	22.84	28.73	18.95
2009	15.81	19.06	13.28	15.37	18.57	12.84	21.89	26.98	18.54
2010	15.51	18.75	12.99	15.04	18.15	12.57	21.50	27.45	17.62
2011	15.11	18.07	12.77	14.64	17.51	12.33	21.09	26.16	17.71
2012	14.69	17.59	12.37	14.30	17.05	12.05	19.89	25.43	16.18
2013	14.47	17.36	12.13	14.14	16.89	11.88	19.29	24.63	15.69
2014	14.11	16.86	11.88	13.82	16.43	11.67	18.52	23.13	15.29
2015	14.00	16.65	11.84	13.68	16.24	11.55	18.62	23.12	15.52
2016	13.68	16.30	11.53	13.37	15.89	11.25	18.33	22.96	15.09

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 7.4  
Cancer of the Corpus and Uterus, NOS (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-1979	31.85	5.98	99.61	33.53	6.14	105.25	18.69	3.72	57.86
1980	27.32	4.97	85.84	28.57	4.95	90.41	16.22	2.51	52.13
1981	27.27	5.60	83.99	28.38	5.45	88.40	17.42	2.86	55.52
1982	26.78	5.04	83.71	28.19	5.19	88.41	17.09	2.49	55.33
1983	26.51	4.86	83.21	27.78	4.92	87.66	18.83	3.39	59.25
1984	25.69	4.62	80.86	27.14	4.84	85.51	17.38	1.74	58.35
1985	25.23	4.63	79.19	26.57	4.83	83.48	17.41	2.23	57.17
1986	24.38	4.81	75.64	25.59	4.96	79.62	16.78	2.54	54.09
1987	24.71	5.00	76.32	26.12	5.28	80.68	15.76	2.02	51.73
1988	23.58	4.56	73.38	24.62	4.49	77.34	16.97	2.97	53.65
1989	24.43	4.48	76.68	25.50	4.77	79.80	19.36	1.78	65.40
1990	25.03	4.59	78.57	26.55	4.82	83.43	17.03	2.28	55.65
1991	24.64	4.38	77.70	26.00	4.49	82.33	17.48	3.12	55.09
1992	24.78	4.86	76.95	26.17	4.85	82.00	17.01	3.01	53.68
1993	24.30	5.19	74.32	25.68	5.14	79.47	17.07	3.48	52.64
1994	25.13	5.03	77.74	26.35	5.07	82.08	17.65	2.42	57.53
1995	25.34	4.74	79.27	26.52	4.67	83.75	18.82	2.75	60.90
1996	24.94	4.53	78.38	25.99	4.39	82.57	19.49	3.17	62.21
1997	25.88	5.04	80.46	27.35	5.04	85.74	16.71	2.54	53.82
1998	25.74	4.84	80.45	27.01	4.77	85.25	19.61	3.15	62.71
1999	25.34	5.20	78.08	26.79	5.08	83.63	17.88	2.97	56.94
2000	24.81	5.23	76.11	26.25	5.37	80.93	18.12	3.00	57.70
2001	25.29	5.11	78.15	26.69	4.95	83.62	19.44	4.07	59.70
2002	24.94	5.07	77.00	25.32	4.60	79.58	23.48	4.87	72.23
2003	24.38	5.32	74.27	25.60	5.31	78.72	20.43	3.76	64.07
2004	25.12	5.57	76.32	26.05	5.28	80.46	20.79	3.85	65.18
2005	24.98	5.53	75.92	25.80	5.37	79.29	23.37	4.12	73.79
2006	24.62	5.14	75.62	26.06	5.05	81.07	19.36	3.70	60.37
2007	25.32	5.89	76.18	26.11	5.89	79.07	22.61	3.59	72.44
2008	26.15	6.01	78.87	26.74	5.78	81.63	24.25	4.23	76.67
2009	27.43	6.02	83.51	28.10	5.94	86.12	25.34	3.72	81.97
2010	27.49	6.28	83.05	28.13	6.06	85.91	24.86	3.97	79.59
2011	27.21	5.59	83.81	27.43	5.40	85.14	28.43	4.00	92.41
2012	27.58	6.20	83.54	28.37	6.01	86.90	25.62	4.43	81.11
2013	27.03	5.98	82.16	27.07	5.41	83.77	27.73	4.94	87.42
2014	27.79	6.33	83.96	28.65	6.21	87.41	26.34	3.89	85.14
2015	27.68	6.57	82.97	27.96	6.38	84.46	27.79	5.27	86.76
2016	28.11	6.15	85.59	28.27	6.06	86.44	28.15	3.90	91.66

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 7.5  
Cancer of the Corpus and Uterus, NOS (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-2016	26.49	5.34	81.87	27.58	5.28	85.99	21.29	3.48	67.93
1975-1979	31.85	5.98	99.61	33.53	6.14	105.25	18.69	3.72	57.86
1980	27.32	4.97	85.84	28.57	4.95	90.41	16.22	-	52.13
1981	27.27	5.60	83.99	28.38	5.45	88.40	17.42	2.86	55.52
1982	26.78	5.04	83.71	28.19	5.19	88.41	17.09	2.49	55.33
1983	26.51	4.86	83.21	27.78	4.92	87.66	18.83	3.39	59.25
1984	25.69	4.62	80.86	27.14	4.84	85.51	17.38	-	58.35
1985	25.23	4.63	79.19	26.57	4.83	83.48	17.41	2.23	57.17
1986	24.38	4.81	75.64	25.59	4.96	79.62	16.78	2.54	54.09
1987	24.71	5.00	76.32	26.12	5.28	80.68	15.76	-	51.73
1988	23.58	4.56	73.38	24.62	4.49	77.34	16.97	2.97	53.65
1989	24.43	4.48	76.68	25.50	4.77	79.80	19.36	1.78	65.40
1990	25.03	4.59	78.57	26.55	4.82	83.43	17.03	2.28	55.65
1991	24.64	4.38	77.70	26.00	4.49	82.33	17.48	3.12	55.09
1992	24.78	4.86	76.95	26.17	4.85	82.00	17.01	3.01	53.68
1993	24.30	5.19	74.32	25.68	5.14	79.47	17.07	3.48	52.64
1994	25.13	5.03	77.74	26.35	5.07	82.08	17.65	2.42	57.53
1995	25.34	4.74	79.27	26.52	4.67	83.75	18.82	2.75	60.90
1996	24.94	4.53	78.38	25.99	4.39	82.57	19.49	3.17	62.21
1997	25.88	5.04	80.46	27.35	5.04	85.74	16.71	2.54	53.82
1998	25.74	4.84	80.45	27.01	4.77	85.25	19.61	3.15	62.71
1999	25.34	5.20	78.08	26.79	5.08	83.63	17.88	2.97	56.94
2000	24.81	5.23	76.11	26.25	5.37	80.93	18.12	3.00	57.70
2001	25.29	5.11	78.15	26.69	4.95	83.62	19.44	4.07	59.70
2002	24.94	5.07	77.00	25.32	4.60	79.58	23.48	4.87	72.23
2003	24.38	5.32	74.27	25.60	5.31	78.72	20.43	3.76	64.07
2004	25.12	5.57	76.32	26.05	5.28	80.46	20.79	3.85	65.18
2005	24.98	5.53	75.92	25.80	5.37	79.29	23.37	4.12	73.79
2006	24.62	5.14	75.62	26.06	5.05	81.07	19.36	3.70	60.37
2007	25.32	5.89	76.18	26.11	5.89	79.07	22.61	3.59	72.44
2008	26.13	6.01	78.84	26.73	5.78	81.58	24.23	4.23	76.59
2009	27.41	6.02	83.43	28.06	5.93	86.02	25.29	3.71	81.80
2010	27.46	6.27	82.94	28.08	6.05	85.75	24.79	3.96	79.33
2011	27.16	5.58	83.67	27.37	5.38	84.94	28.31	3.99	92.01
2012	27.52	6.19	83.36	28.28	5.99	86.64	25.48	4.41	80.67
2013	26.96	5.96	81.95	26.97	5.39	83.46	27.56	4.91	86.87
2014	27.70	6.31	83.69	28.52	6.18	87.01	26.12	3.86	84.42
2015	27.56	6.54	82.61	27.78	6.34	83.93	27.53	5.23	85.91
2016	27.90	6.12	84.95	27.97	6.00	85.49	27.76	3.85	90.37

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 7.6  
Cancer of the Corpus and Uterus, NOS (Invasive)  
Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Age

Year of Death:	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-2016	4.46	0.38	15.16	4.19	0.36	14.23	7.53	0.51	25.92
1975-1979	5.18	0.50	17.44	4.93	0.46	16.66	8.06	0.84	26.97
1980	5.12	0.44	17.38	4.84	0.39	16.50	8.39	0.85	28.12
1981	4.88	0.41	16.60	4.68	0.38	15.91	7.34	0.56	25.11
1982	4.85	0.41	16.49	4.61	0.40	15.65	7.61	0.43	26.40
1983	4.80	0.36	16.43	4.59	0.32	15.78	7.29	0.60	24.82
1984	4.68	0.36	15.99	4.42	0.31	15.17	7.70	0.69	26.07
1985	4.61	0.36	15.74	4.39	0.34	14.99	7.37	0.51	25.33
1986	4.44	0.35	15.17	4.20	0.33	14.36	7.27	0.56	24.85
1987	4.42	0.34	15.10	4.18	0.32	14.28	7.32	0.52	25.12
1988	4.35	0.31	14.90	4.09	0.30	14.01	7.40	0.46	25.57
1989	4.26	0.35	14.52	4.01	0.33	13.63	7.25	0.48	24.99
1990	4.34	0.33	14.85	4.08	0.32	13.94	7.36	0.42	25.56
1991	4.18	0.33	14.24	3.90	0.31	13.30	7.29	0.49	25.08
1992	4.21	0.32	14.40	3.97	0.29	13.59	6.98	0.44	24.11
1993	4.17	0.32	14.26	3.91	0.30	13.35	7.28	0.44	25.17
1994	4.15	0.28	14.29	3.91	0.28	13.41	7.06	0.34	24.67
1995	4.15	0.34	14.12	3.97	0.34	13.47	6.46	0.35	22.47
1996	4.13	0.31	14.14	3.86	0.30	13.18	7.18	0.37	25.03
1997	4.00	0.31	13.67	3.78	0.31	12.85	6.74	0.30	23.62
1998	4.10	0.32	14.00	3.86	0.29	13.19	6.85	0.45	23.60
1999	4.08	0.35	13.87	3.86	0.34	13.10	6.84	0.39	23.71
2000	4.11	0.35	13.95	3.84	0.34	12.99	7.23	0.40	25.11
2001	4.18	0.36	14.18	3.94	0.34	13.38	6.97	0.48	23.97
2002	4.17	0.34	14.19	3.88	0.33	13.17	7.32	0.40	25.46
2003	4.14	0.34	14.10	3.89	0.31	13.27	7.05	0.49	24.23
2004	4.14	0.38	13.99	3.89	0.37	13.09	6.96	0.45	24.01
2005	4.12	0.36	13.98	3.85	0.34	13.05	7.15	0.49	24.58
2006	4.23	0.37	14.34	3.95	0.36	13.35	7.34	0.45	25.39
2007	4.20	0.39	14.17	3.90	0.37	13.15	7.50	0.51	25.82
2008	4.21	0.38	14.25	3.96	0.37	13.35	7.09	0.51	24.33
2009	4.17	0.38	14.11	3.89	0.39	13.04	7.42	0.42	25.74
2010	4.45	0.40	15.06	4.16	0.38	14.06	7.53	0.50	25.93
2011	4.48	0.43	15.09	4.15	0.41	13.93	8.00	0.55	27.51
2012	4.51	0.40	15.29	4.14	0.38	14.00	8.15	0.53	28.10
2013	4.64	0.48	15.54	4.30	0.46	14.36	8.30	0.61	28.44
2014	4.72	0.42	15.99	4.35	0.39	14.72	8.56	0.61	29.38
2015	4.80	0.44	16.20	4.43	0.40	14.97	8.50	0.69	28.95
2016	5.00	0.51	16.76	4.62	0.50	15.42	8.71	0.58	29.99

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 8.4  
Cancer of the Esophagus (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	4.21	6.93	2.15	3.55	5.75	1.93	11.96	21.11	4.86
1980	4.27	6.87	2.28	3.54	5.75	1.86	12.32	18.79	7.41
1981	4.14	6.46	2.36	3.31	5.17	1.94	13.53	21.28	7.46
1982	4.26	6.81	2.28	3.46	5.46	1.96	13.61	22.72	6.41
1983	4.29	7.42	1.95	3.57	6.11	1.77	12.23	22.22	4.26
1984	4.18	6.66	2.24	3.52	5.60	1.92	12.00	19.85	5.98
1985	4.45	7.43	2.22	3.74	6.26	1.89	12.75	22.22	5.81
1986	4.64	7.49	2.47	3.90	6.23	2.19	14.07	24.02	6.31
1987	4.54	7.53	2.24	3.90	6.40	2.00	11.44	20.13	4.81
1988	4.43	7.32	2.21	3.87	6.31	2.02	11.18	19.49	4.99
1989	4.40	7.30	2.21	3.77	6.20	1.96	10.49	17.29	5.39
1990	4.82	8.25	2.19	4.19	7.24	1.90	12.49	21.33	5.83
1991	4.56	7.45	2.35	4.16	6.75	2.19	10.21	17.78	4.88
1992	4.60	8.01	2.00	4.21	7.38	1.80	10.74	18.35	5.32
1993	4.61	7.66	2.25	4.20	6.92	2.10	10.03	17.50	4.64
1994	4.50	7.70	2.06	4.16	7.16	1.87	9.20	14.68	5.13
1995	4.36	7.08	2.20	4.07	6.63	2.06	8.44	13.78	4.37
1996	4.80	8.12	2.20	4.40	7.48	1.98	9.69	16.36	4.81
1997	4.69	7.78	2.22	4.59	7.73	2.02	7.15	10.96	4.46
1998	4.73	8.18	2.04	4.52	7.92	1.87	7.86	12.65	4.32
1999	4.93	8.41	2.17	4.90	8.42	2.07	7.17	11.52	4.08
2000	4.78	7.99	2.17	4.72	8.02	2.02	7.04	10.58	4.44
2001	4.82	8.47	1.92	4.84	8.43	1.93	6.46	11.59	2.71
2002	4.63	7.95	1.99	4.62	8.09	1.83	6.37	10.04	3.65
2003	4.65	8.05	1.96	4.75	8.25	1.93	6.43	10.20	3.79
2004	5.31	9.00	2.37	5.44	9.28	2.34	6.06	8.90	3.98
2005	4.63	8.12	1.85	4.79	8.48	1.79	5.18	8.56	2.88
2006	4.74	7.96	2.10	4.90	8.26	2.08	5.42	8.78	2.95
2007	4.71	8.09	1.99	4.87	8.42	1.98	5.23	8.36	2.92
2008	4.67	8.19	1.79	4.88	8.57	1.79	4.69	7.90	2.25
2009	4.64	7.82	2.05	4.98	8.53	2.00	4.66	6.69	3.36
2010	4.41	7.67	1.73	4.57	7.95	1.69	4.70	7.51	2.78
2011	4.45	7.70	1.81	4.89	8.52	1.87	3.33	4.78	2.19
2012	4.39	7.56	1.75	4.80	8.24	1.87	3.63	6.23	1.69
2013	4.35	7.44	1.76	4.69	7.94	1.90	4.14	7.15	1.92
2014	4.26	7.27	1.76	4.54	7.76	1.79	3.95	6.19	2.40
2015	4.47	7.70	1.81	4.85	8.33	1.89	3.86	6.10	2.28
2016	4.33	7.48	1.70	4.58	7.95	1.68	4.01	6.36	2.26

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 8.5  
Cancer of the Esophagus (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.52	7.66	2.05	4.35	7.41	1.93	7.47	12.38	3.83
1975-1979	4.21	6.93	2.15	3.55	5.75	1.93	11.96	21.11	4.86
1980	4.27	6.87	2.28	3.54	5.75	1.86	12.32	18.79	7.41
1981	4.14	6.46	2.36	3.31	5.17	1.94	13.53	21.28	7.46
1982	4.26	6.81	2.28	3.46	5.46	1.96	13.61	22.72	6.41
1983	4.29	7.42	1.95	3.57	6.11	1.77	12.23	22.22	4.26
1984	4.18	6.66	2.24	3.52	5.60	1.92	12.00	19.85	5.98
1985	4.45	7.43	2.22	3.74	6.26	1.89	12.75	22.22	5.81
1986	4.64	7.49	2.47	3.90	6.23	2.19	14.07	24.02	6.31
1987	4.54	7.53	2.24	3.90	6.40	2.00	11.44	20.13	4.81
1988	4.43	7.32	2.21	3.87	6.31	2.02	11.18	19.49	4.99
1989	4.40	7.30	2.21	3.77	6.20	1.96	10.49	17.29	5.39
1990	4.82	8.25	2.19	4.19	7.24	1.90	12.49	21.33	5.83
1991	4.56	7.45	2.35	4.16	6.75	2.19	10.21	17.78	4.88
1992	4.60	8.01	2.00	4.21	7.38	1.80	10.74	18.35	5.32
1993	4.61	7.66	2.25	4.20	6.92	2.10	10.03	17.50	4.64
1994	4.50	7.70	2.06	4.16	7.16	1.87	9.20	14.68	5.13
1995	4.36	7.08	2.20	4.07	6.63	2.06	8.44	13.78	4.37
1996	4.80	8.12	2.20	4.40	7.48	1.98	9.69	16.36	4.81
1997	4.69	7.78	2.22	4.59	7.73	2.02	7.15	10.96	4.46
1998	4.73	8.18	2.04	4.52	7.92	1.87	7.86	12.65	4.32
1999	4.93	8.41	2.17	4.90	8.42	2.07	7.17	11.52	4.08
2000	4.78	7.99	2.17	4.72	8.02	2.02	7.04	10.58	4.44
2001	4.82	8.47	1.92	4.84	8.43	1.93	6.46	11.59	2.71
2002	4.63	7.95	1.99	4.62	8.09	1.83	6.37	10.04	3.65
2003	4.65	8.05	1.96	4.75	8.25	1.93	6.43	10.20	3.79
2004	5.31	9.00	2.37	5.44	9.28	2.34	6.06	8.90	3.98
2005	4.63	8.12	1.85	4.79	8.48	1.79	5.18	8.56	2.88
2006	4.74	7.96	2.10	4.90	8.26	2.08	5.42	8.78	2.95
2007	4.71	8.09	1.99	4.87	8.42	1.98	5.23	8.36	2.92
2008	4.67	8.18	1.79	4.87	8.57	1.79	4.69	7.90	2.25
2009	4.64	7.82	2.05	4.97	8.53	2.00	4.66	6.68	3.36
2010	4.41	7.66	1.73	4.56	7.94	1.69	4.70	7.51	2.78
2011	4.44	7.69	1.81	4.88	8.51	1.87	3.33	4.78	2.19
2012	4.39	7.55	1.75	4.79	8.23	1.86	3.62	6.22	1.69
2013	4.34	7.43	1.76	4.68	7.92	1.89	4.14	7.14	1.92
2014	4.24	7.24	1.75	4.53	7.73	1.78	3.94	6.17	2.40
2015	4.45	7.66	1.80	4.82	8.27	1.88	3.84	6.06	2.26
2016	4.27	7.37	1.68	4.51	7.83	1.65	3.94	6.25	2.23

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 8.6  
Cancer of the Esophagus (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.12	7.27	1.70	3.92	6.96	1.56	6.60	11.50	3.07
1975-1979	3.74	6.36	1.77	3.12	5.30	1.51	10.06	17.70	4.25
1980	3.85	6.60	1.82	3.17	5.49	1.50	10.60	18.30	4.88
1981	3.82	6.58	1.78	3.16	5.44	1.51	10.45	18.72	4.35
1982	3.84	6.52	1.84	3.17	5.37	1.56	10.49	18.60	4.51
1983	3.85	6.64	1.79	3.22	5.59	1.50	10.21	17.95	4.52
1984	3.93	6.74	1.86	3.28	5.63	1.56	10.60	18.80	4.65
1985	3.86	6.72	1.72	3.26	5.71	1.46	9.93	17.72	4.26
1986	3.94	6.76	1.84	3.34	5.76	1.57	10.19	17.96	4.55
1987	3.97	6.88	1.80	3.41	5.96	1.53	9.67	17.13	4.37
1988	4.05	7.04	1.80	3.47	6.01	1.58	9.95	18.40	3.89
1989	4.11	7.15	1.82	3.56	6.23	1.57	9.75	17.32	4.29
1990	4.10	7.16	1.81	3.58	6.32	1.55	9.35	16.33	4.37
1991	4.13	7.24	1.81	3.64	6.43	1.57	9.23	16.54	4.14
1992	4.17	7.30	1.81	3.74	6.61	1.57	8.65	15.10	4.11
1993	4.19	7.33	1.82	3.75	6.60	1.59	8.99	16.00	4.07
1994	4.27	7.59	1.77	3.87	6.94	1.56	8.57	15.28	3.88
1995	4.26	7.56	1.76	3.92	7.00	1.58	8.04	14.45	3.51
1996	4.31	7.52	1.86	4.01	7.06	1.67	7.77	13.57	3.72
1997	4.25	7.50	1.77	4.00	7.11	1.60	7.26	12.84	3.39
1998	4.36	7.65	1.84	4.13	7.31	1.66	7.11	12.21	3.56
1999	4.35	7.69	1.77	4.19	7.44	1.65	6.54	11.56	3.06
2000	4.39	7.71	1.83	4.27	7.56	1.69	6.44	10.93	3.26
2001	4.43	7.85	1.79	4.30	7.66	1.68	6.41	11.30	3.01
2002	4.41	7.82	1.75	4.35	7.77	1.64	5.89	10.15	2.92
2003	4.38	7.75	1.75	4.34	7.71	1.66	5.68	9.64	2.87
2004	4.36	7.74	1.73	4.35	7.77	1.63	5.36	8.98	2.85
2005	4.44	7.95	1.67	4.48	8.07	1.61	4.99	8.76	2.34
2006	4.41	7.84	1.69	4.47	7.99	1.64	4.77	8.25	2.34
2007	4.27	7.66	1.59	4.35	7.81	1.55	4.66	8.24	2.23
2008	4.22	7.54	1.58	4.31	7.74	1.52	4.46	7.64	2.27
2009	4.18	7.47	1.55	4.30	7.71	1.53	4.05	7.19	1.87
2010	4.26	7.54	1.61	4.40	7.79	1.60	4.19	7.38	1.99
2011	4.15	7.42	1.52	4.33	7.76	1.51	3.79	6.54	1.86
2012	4.10	7.31	1.49	4.28	7.67	1.46	3.73	6.19	1.94
2013	4.02	7.15	1.46	4.22	7.51	1.46	3.48	5.89	1.77
2014	3.99	7.09	1.44	4.21	7.50	1.44	3.32	5.50	1.77
2015	3.97	7.05	1.43	4.23	7.51	1.46	3.02	5.11	1.53
2016	3.94	6.95	1.45	4.20	7.42	1.48	3.09	5.18	1.59

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 9.4  
Hodgkin Lymphoma

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	2.91	3.63	2.30	3.11	3.81	2.52	2.23	3.36	1.27
1980	2.77	3.31	2.27	2.98	3.53	2.48	1.82	2.07	1.54
1981	2.92	3.58	2.34	3.23	3.92	2.62	1.43	1.94	0.98
1982	2.92	3.50	2.45	3.13	3.67	2.69	2.58	3.15	2.04
1983	3.02	3.72	2.39	3.33	4.00	2.70	2.11	3.85	0.96
1984	3.06	3.72	2.47	3.38	4.02	2.79	2.07	3.31	1.12
1985	2.98	3.51	2.50	3.31	3.85	2.83	1.74	2.26	1.27
1986	2.73	3.33	2.22	2.91	3.50	2.41	2.27	2.80	1.90
1987	3.04	3.71	2.50	3.33	4.00	2.77	2.12	2.78	1.54
1988	3.10	3.60	2.67	3.43	4.00	2.94	1.94	1.93	1.93
1989	3.06	3.68	2.54	3.35	3.97	2.84	2.16	3.15	1.37
1990	3.06	3.51	2.63	3.30	3.83	2.78	3.02	3.23	2.81
1991	3.03	3.51	2.61	3.35	3.84	2.91	2.44	2.77	2.08
1992	2.87	3.12	2.68	3.06	3.24	2.92	2.66	2.71	2.61
1993	2.86	3.27	2.50	3.09	3.49	2.75	2.96	3.64	2.46
1994	2.85	3.15	2.59	3.15	3.49	2.82	2.15	2.41	1.99
1995	2.77	3.23	2.36	3.05	3.52	2.65	2.32	2.93	1.78
1996	2.86	3.32	2.42	3.14	3.63	2.69	2.46	3.19	1.83
1997	2.82	2.95	2.70	3.07	3.22	2.92	2.58	2.42	2.72
1998	2.80	3.11	2.54	3.13	3.45	2.87	2.15	2.46	1.89
1999	2.86	3.08	2.69	3.10	3.23	3.02	2.58	3.14	2.12
2000	2.82	3.30	2.37	3.07	3.55	2.62	2.42	3.03	1.87
2001	2.57	2.95	2.23	2.74	3.13	2.37	2.48	3.17	1.98
2002	2.96	3.27	2.71	3.15	3.45	2.91	2.97	3.23	2.82
2003	2.72	3.12	2.37	3.02	3.47	2.61	2.42	2.82	2.23
2004	2.95	3.06	2.89	3.12	3.20	3.10	3.17	3.25	3.13
2005	3.02	3.51	2.62	3.24	3.73	2.83	3.24	3.54	2.95
2006	3.00	3.32	2.70	3.22	3.51	2.92	3.16	3.93	2.51
2007	3.18	3.68	2.74	3.44	3.90	3.02	3.33	4.10	2.68
2008	2.97	3.38	2.59	3.23	3.61	2.88	3.10	3.72	2.56
2009	2.94	3.20	2.71	3.24	3.49	3.01	2.65	3.23	2.13
2010	2.80	3.26	2.38	3.03	3.53	2.55	2.58	3.10	2.14
2011	2.74	3.18	2.35	2.92	3.35	2.51	2.95	3.56	2.40
2012	2.74	3.06	2.44	2.94	3.29	2.60	2.84	2.90	2.75
2013	2.68	3.09	2.33	2.83	3.18	2.53	2.93	3.63	2.33
2014	2.84	3.34	2.38	3.01	3.50	2.56	3.02	3.51	2.57
2015	2.66	3.05	2.30	2.83	3.13	2.55	3.12	4.21	2.25
2016	2.63	3.00	2.28	2.78	3.20	2.38	2.98	3.37	2.65

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 9.5  
Hodgkin Lymphoma

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	2.87	3.32	2.48	3.11	3.56	2.72	2.59	3.16	2.12
1975-1979	2.91	3.63	2.30	3.11	3.81	2.52	2.23	3.36	1.27
1980	2.77	3.31	2.27	2.98	3.53	2.48	1.82	2.07	1.54
1981	2.92	3.58	2.34	3.23	3.92	2.62	1.43	1.94	-
1982	2.92	3.50	2.45	3.13	3.67	2.69	2.58	3.15	2.04
1983	3.02	3.72	2.39	3.33	4.00	2.70	2.11	3.85	-
1984	3.06	3.72	2.47	3.38	4.02	2.79	2.07	3.31	-
1985	2.98	3.51	2.50	3.31	3.85	2.83	1.74	2.26	-
1986	2.73	3.33	2.22	2.91	3.50	2.41	2.27	2.80	1.90
1987	3.04	3.71	2.50	3.33	4.00	2.77	2.12	2.78	1.54
1988	3.10	3.60	2.67	3.43	4.00	2.94	1.94	1.93	1.93
1989	3.06	3.68	2.54	3.35	3.97	2.84	2.16	3.15	1.37
1990	3.06	3.51	2.63	3.30	3.83	2.78	3.02	3.23	2.81
1991	3.03	3.51	2.61	3.35	3.84	2.91	2.44	2.77	2.08
1992	2.87	3.12	2.68	3.06	3.24	2.92	2.66	2.71	2.61
1993	2.86	3.27	2.50	3.09	3.49	2.75	2.96	3.64	2.46
1994	2.85	3.15	2.59	3.15	3.49	2.82	2.15	2.41	1.99
1995	2.77	3.23	2.36	3.05	3.52	2.65	2.32	2.93	1.78
1996	2.86	3.32	2.42	3.14	3.63	2.69	2.46	3.19	1.83
1997	2.82	2.95	2.70	3.07	3.22	2.92	2.58	2.42	2.72
1998	2.80	3.11	2.54	3.13	3.45	2.87	2.15	2.46	1.89
1999	2.86	3.08	2.69	3.10	3.23	3.02	2.58	3.14	2.12
2000	2.82	3.30	2.37	3.07	3.55	2.62	2.42	3.03	1.87
2001	2.57	2.95	2.23	2.74	3.13	2.37	2.48	3.17	1.98
2002	2.96	3.27	2.71	3.15	3.45	2.91	2.97	3.23	2.82
2003	2.72	3.12	2.37	3.02	3.47	2.61	2.42	2.82	2.23
2004	2.95	3.06	2.89	3.12	3.20	3.10	3.17	3.25	3.13
2005	3.02	3.51	2.62	3.24	3.73	2.83	3.24	3.54	2.95
2006	3.00	3.32	2.70	3.22	3.51	2.92	3.16	3.93	2.51
2007	3.18	3.68	2.74	3.44	3.90	3.02	3.33	4.10	2.68
2008	2.96	3.38	2.59	3.22	3.61	2.88	3.09	3.71	2.55
2009	2.94	3.20	2.71	3.23	3.48	3.00	2.63	3.21	2.12
2010	2.79	3.25	2.38	3.02	3.52	2.54	2.56	3.07	2.12
2011	2.73	3.16	2.34	2.90	3.34	2.50	2.92	3.52	2.37
2012	2.72	3.04	2.42	2.92	3.27	2.58	2.80	2.86	2.71
2013	2.66	3.07	2.31	2.81	3.16	2.51	2.88	3.57	2.29
2014	2.81	3.31	2.36	2.98	3.47	2.53	2.95	3.44	2.52
2015	2.64	3.02	2.28	2.80	3.10	2.52	3.05	4.13	2.20
2016	2.59	2.95	2.24	2.74	3.15	2.34	2.88	3.25	2.56

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 9.6  
Hodgkin Lymphoma

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	0.58	0.73	0.46	0.61	0.76	0.48	0.49	0.66	0.37
1975-1979	1.13	1.45	0.86	1.16	1.48	0.90	0.89	1.27	0.59
1980	0.98	1.23	0.76	1.01	1.27	0.80	0.75	1.09	0.48
1981	0.93	1.15	0.74	0.96	1.19	0.76	0.74	0.88	0.62
1982	0.88	1.09	0.70	0.92	1.15	0.72	0.70	0.78	0.62
1983	0.85	1.09	0.65	0.88	1.13	0.68	0.64	0.90	0.45
1984	0.86	1.18	0.60	0.88	1.19	0.63	0.79	1.18	0.47
1985	0.77	0.98	0.58	0.78	1.00	0.60	0.71	0.96	0.51
1986	0.78	1.00	0.58	0.80	1.04	0.60	0.65	0.85	0.49
1987	0.74	0.96	0.56	0.77	0.98	0.58	0.67	0.94	0.46
1988	0.67	0.88	0.50	0.69	0.91	0.51	0.59	0.75	0.48
1989	0.71	0.92	0.54	0.73	0.94	0.56	0.66	0.92	0.47
1990	0.66	0.85	0.50	0.69	0.88	0.52	0.56	0.81	0.36
1991	0.65	0.83	0.51	0.66	0.83	0.51	0.67	0.89	0.49
1992	0.65	0.83	0.50	0.67	0.86	0.52	0.58	0.77	0.45
1993	0.61	0.79	0.47	0.63	0.80	0.50	0.57	0.83	0.39
1994	0.56	0.66	0.47	0.56	0.66	0.48	0.55	0.73	0.41
1995	0.55	0.67	0.44	0.56	0.68	0.46	0.53	0.73	0.36
1996	0.53	0.64	0.44	0.55	0.65	0.46	0.47	0.63	0.36
1997	0.53	0.62	0.46	0.54	0.63	0.47	0.54	0.67	0.43
1998	0.48	0.61	0.36	0.49	0.62	0.37	0.48	0.66	0.33
1999	0.51	0.63	0.41	0.53	0.66	0.43	0.41	0.55	0.30
2000	0.46	0.55	0.39	0.48	0.57	0.41	0.35	0.42	0.30
2001	0.47	0.56	0.38	0.48	0.59	0.39	0.42	0.52	0.35
2002	0.47	0.58	0.38	0.49	0.60	0.41	0.40	0.57	0.27
2003	0.46	0.55	0.39	0.48	0.57	0.41	0.36	0.47	0.27
2004	0.43	0.55	0.34	0.44	0.57	0.35	0.40	0.47	0.34
2005	0.42	0.51	0.36	0.43	0.51	0.37	0.42	0.55	0.32
2006	0.44	0.56	0.33	0.45	0.57	0.35	0.41	0.56	0.30
2007	0.41	0.51	0.33	0.43	0.53	0.35	0.36	0.45	0.29
2008	0.37	0.45	0.31	0.39	0.47	0.33	0.33	0.39	0.28
2009	0.40	0.48	0.32	0.41	0.49	0.34	0.39	0.48	0.30
2010	0.38	0.49	0.29	0.40	0.51	0.31	0.30	0.36	0.26
2011	0.36	0.47	0.27	0.37	0.48	0.28	0.35	0.50	0.24
2012	0.34	0.42	0.27	0.35	0.43	0.28	0.33	0.41	0.26
2013	0.32	0.41	0.25	0.34	0.42	0.26	0.28	0.34	0.24
2014	0.31	0.40	0.24	0.32	0.40	0.25	0.31	0.42	0.23
2015	0.31	0.40	0.24	0.33	0.43	0.24	0.27	0.30	0.25
2016	0.27	0.35	0.21	0.29	0.37	0.22	0.21	0.32	0.14

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 10.4  
Kaposi Sarcoma

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	1.55	3.05	0.12	1.60	3.11	0.11	2.10	4.27	0.25
1975-1979	0.24	0.44	0.11	0.23	0.44	0.11	-	-	-
1980	0.28	0.56	-	0.31	0.62	-	-	-	-
1981	0.32	0.54	-	0.34	0.61	-	-	-	-
1982	0.65	1.20	0.18	0.70	1.30	0.18	-	-	-
1983	1.07	2.18	-	1.18	2.39	-	-	-	-
1984	1.81	3.59	-	2.00	3.93	-	1.27	2.89	-
1985	2.46	4.86	0.16	2.79	5.47	0.18	1.09	2.24	-
1986	3.27	6.52	-	3.70	7.32	-	1.65	3.59	-
1987	3.80	7.60	-	4.25	8.44	-	2.09	4.29	-
1988	4.43	8.87	0.15	4.82	9.56	0.15	3.40	7.28	-
1989	4.77	9.54	0.14	5.13	10.18	-	4.64	9.84	-
1990	4.62	9.22	0.18	5.04	9.99	0.16	3.65	7.54	-
1991	4.70	9.40	0.19	5.04	10.00	0.18	4.59	9.53	-
1992	4.37	8.67	0.18	4.60	9.01	0.18	5.08	10.72	-
1993	3.86	7.64	0.17	4.05	7.96	0.15	4.28	8.60	-
1994	3.79	7.47	0.17	3.87	7.57	0.14	4.25	8.63	-
1995	3.30	6.47	0.20	3.26	6.33	0.17	5.03	10.46	-
1996	2.24	4.41	0.16	2.01	4.00	-	4.67	9.21	-
1997	1.08	2.09	0.13	0.92	1.79	-	2.77	5.52	-
1998	0.81	1.58	-	0.70	1.34	-	1.79	3.78	-
1999	0.79	1.48	0.14	0.66	1.25	-	1.94	3.72	-
2000	0.80	1.55	-	0.67	1.30	-	1.99	4.00	-
2001	0.83	1.52	0.17	0.68	1.21	0.15	2.02	4.03	-
2002	0.69	1.30	0.12	0.59	1.10	-	1.51	3.05	-
2003	0.67	1.29	-	0.60	1.13	-	1.52	3.21	-
2004	0.70	1.35	-	0.60	1.16	-	1.69	3.41	-
2005	0.78	1.48	0.13	0.61	1.16	-	2.08	4.07	-
2006	0.62	1.22	-	0.53	1.02	-	1.44	2.93	-
2007	0.70	1.33	-	0.58	1.08	-	1.73	3.57	-
2008	0.68	1.33	-	0.57	1.11	-	1.66	3.22	-
2009	0.64	1.22	0.11	0.54	1.03	-	1.48	2.89	-
2010	0.65	1.23	0.09	0.45	0.84	-	1.91	3.88	-
2011	0.65	1.27	-	0.47	0.93	-	1.96	4.08	-
2012	0.67	1.28	0.09	0.50	0.94	-	1.85	3.71	-
2013	0.52	0.97	-	0.39	0.73	-	1.49	2.84	-
2014	0.58	1.08	0.10	0.39	0.73	-	1.72	3.25	-
2015	0.52	0.94	0.11	0.37	0.65	-	1.49	2.84	-
2016	0.51	0.94	0.10	0.35	0.65	-	1.41	2.77	-

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 11.4  
Cancer of the Kidney and Renal Pelvis (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	7.72	11.19	5.07	7.88	11.54	5.13	7.56	10.05	5.51
1980	8.06	11.69	5.38	8.36	12.21	5.55	5.97	7.95	4.36
1981	8.49	12.83	5.30	8.57	13.03	5.32	10.00	15.77	5.82
1982	8.35	11.83	5.71	8.53	12.05	5.86	7.59	11.20	4.90
1983	8.94	13.25	5.66	9.24	13.78	5.80	8.81	13.53	5.52
1984	9.19	13.12	6.20	9.47	13.61	6.33	9.01	12.01	6.89
1985	8.94	13.12	5.76	9.22	13.59	5.92	8.63	11.69	6.22
1986	9.65	13.82	6.55	9.83	14.09	6.66	9.95	14.74	6.49
1987	9.90	14.07	6.73	10.08	14.35	6.87	11.06	15.60	7.51
1988	9.94	14.00	6.97	10.11	14.30	7.06	11.67	15.52	8.79
1989	10.32	14.50	7.16	10.61	15.06	7.23	10.78	15.06	7.82
1990	10.44	14.72	7.14	10.69	14.98	7.42	10.58	15.94	6.73
1991	10.65	15.06	7.18	10.81	15.24	7.34	12.24	18.19	7.79
1992	10.81	15.35	7.41	11.10	15.64	7.74	10.98	16.39	7.18
1993	10.76	14.70	7.63	10.85	14.75	7.74	12.81	17.41	9.43
1994	11.30	15.67	7.86	11.56	16.02	8.05	12.68	17.94	8.66
1995	11.12	15.48	7.67	11.14	15.40	7.73	14.21	21.51	9.19
1996	11.35	15.83	7.91	11.47	16.21	7.80	13.89	17.38	11.30
1997	10.97	15.14	7.64	11.02	15.13	7.71	13.70	19.66	9.37
1998	11.81	16.41	8.19	12.09	16.72	8.44	12.70	17.43	9.03
1999	11.45	15.99	7.82	11.62	16.23	7.88	13.79	19.08	9.95
2000	12.53	17.53	8.53	12.78	18.14	8.41	14.86	19.24	12.00
2001	12.61	17.58	8.62	12.82	17.80	8.79	15.68	23.04	10.40
2002	12.93	17.88	8.91	13.16	18.11	9.09	15.60	22.70	10.64
2003	13.57	18.31	9.73	13.92	18.51	10.17	14.63	21.70	9.42
2004	13.65	18.53	9.69	13.99	18.93	9.90	16.15	22.70	11.29
2005	14.07	19.43	9.72	14.30	19.67	9.85	17.19	25.23	11.63
2006	14.71	19.39	10.81	15.02	19.78	10.97	16.35	21.66	12.36
2007	15.62	21.47	10.75	15.80	21.54	10.97	19.07	27.07	13.14
2008	16.01	21.88	11.14	16.02	21.67	11.23	20.73	30.58	13.84
2009	15.42	21.37	10.41	15.59	21.50	10.46	19.45	29.02	12.67
2010	15.06	20.97	10.07	15.16	20.93	10.20	19.73	28.63	12.91
2011	15.66	21.60	10.63	15.96	21.95	10.76	18.56	25.65	13.23
2012	15.76	21.45	10.94	15.97	21.47	11.21	19.41	27.15	13.45
2013	15.71	22.14	10.25	15.79	22.04	10.36	19.72	29.00	12.59
2014	15.68	21.73	10.51	15.78	21.54	10.75	20.66	31.97	12.19
2015	16.20	22.50	10.79	16.41	22.80	10.78	19.31	27.06	13.41
2016	15.93	21.90	10.74	16.27	22.30	10.91	20.15	26.92	14.68

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

<sup>a</sup>

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Table 11.5  
 Cancer of the Kidney and Renal Pelvis (Invasive)  
 Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	12.22	17.12	8.31	12.29	17.21	8.34	14.72	20.95	10.10
1975-1979	7.72	11.19	5.07	7.88	11.54	5.13	7.56	10.05	5.51
1980	8.06	11.69	5.38	8.36	12.21	5.55	5.97	7.95	4.36
1981	8.49	12.83	5.30	8.57	13.03	5.32	10.00	15.77	5.82
1982	8.35	11.83	5.71	8.53	12.05	5.86	7.59	11.20	4.90
1983	8.94	13.25	5.66	9.24	13.78	5.80	8.81	13.53	5.52
1984	9.19	13.12	6.20	9.47	13.61	6.33	9.01	12.01	6.89
1985	8.94	13.12	5.76	9.22	13.59	5.92	8.63	11.69	6.22
1986	9.65	13.82	6.55	9.83	14.09	6.66	9.95	14.74	6.49
1987	9.90	14.07	6.73	10.08	14.35	6.87	11.06	15.60	7.51
1988	9.94	14.00	6.97	10.11	14.30	7.06	11.67	15.52	8.79
1989	10.32	14.50	7.16	10.61	15.06	7.23	10.78	15.06	7.82
1990	10.44	14.72	7.14	10.69	14.98	7.42	10.58	15.94	6.73
1991	10.65	15.06	7.18	10.81	15.24	7.34	12.24	18.19	7.79
1992	10.81	15.35	7.41	11.10	15.64	7.74	10.98	16.39	7.18
1993	10.76	14.70	7.63	10.85	14.75	7.74	12.81	17.41	9.43
1994	11.30	15.67	7.86	11.56	16.02	8.05	12.68	17.94	8.66
1995	11.12	15.48	7.67	11.14	15.40	7.73	14.21	21.51	9.19
1996	11.35	15.83	7.91	11.47	16.21	7.80	13.89	17.38	11.30
1997	10.97	15.14	7.64	11.02	15.13	7.71	13.70	19.66	9.37
1998	11.81	16.41	8.19	12.09	16.72	8.44	12.70	17.43	9.03
1999	11.45	15.99	7.82	11.62	16.23	7.88	13.79	19.08	9.95
2000	12.53	17.53	8.53	12.78	18.14	8.41	14.86	19.24	12.00
2001	12.61	17.58	8.62	12.82	17.80	8.79	15.68	23.04	10.40
2002	12.93	17.88	8.91	13.16	18.11	9.09	15.60	22.70	10.64
2003	13.57	18.31	9.73	13.92	18.51	10.17	14.63	21.70	9.42
2004	13.65	18.53	9.69	13.99	18.93	9.90	16.15	22.70	11.29
2005	14.07	19.43	9.72	14.30	19.67	9.85	17.19	25.23	11.63
2006	14.71	19.39	10.81	15.02	19.78	10.97	16.35	21.66	12.36
2007	15.62	21.47	10.75	15.80	21.54	10.97	19.07	27.07	13.14
2008	15.99	21.85	11.13	15.99	21.64	11.21	20.68	30.50	13.80
2009	15.38	21.32	10.38	15.53	21.43	10.43	19.35	28.86	12.60
2010	14.99	20.89	10.02	15.09	20.82	10.15	19.57	28.40	12.81
2011	15.57	21.48	10.57	15.85	21.80	10.69	18.35	25.37	13.08
2012	15.65	21.30	10.86	15.84	21.29	11.12	19.14	26.78	13.27
2013	15.58	21.95	10.16	15.63	21.82	10.25	19.39	28.51	12.38
2014	15.49	21.46	10.38	15.56	21.23	10.59	20.23	31.30	11.93
2015	15.91	22.10	10.59	16.09	22.36	10.57	18.77	26.30	13.04
2016	15.43	21.21	10.40	15.73	21.56	10.55	19.16	25.59	13.95

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
 SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
 Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
 - Statistic not shown. Rate based on less than 16 cases for the time interval.



Table 11.6  
Cancer of the Kidney and Renal Pelvis (Invasive)  
Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.01	5.84	2.63	4.09	5.95	2.68	3.79	5.61	2.53
1975-1979	3.65	5.30	2.42	3.73	5.43	2.47	2.94	4.28	1.94
1980	3.68	5.46	2.38	3.77	5.61	2.44	2.96	4.19	2.01
1981	3.73	5.40	2.51	3.80	5.50	2.56	3.18	4.60	2.14
1982	3.85	5.68	2.54	3.92	5.80	2.56	3.40	4.83	2.37
1983	3.85	5.57	2.60	3.93	5.69	2.67	3.26	4.85	2.15
1984	3.90	5.75	2.57	3.96	5.88	2.60	3.45	4.86	2.45
1985	3.96	5.76	2.66	4.00	5.79	2.71	3.83	6.00	2.35
1986	4.05	5.83	2.78	4.11	5.94	2.82	3.68	5.34	2.52
1987	4.14	6.04	2.77	4.23	6.15	2.83	3.66	5.49	2.42
1988	4.03	5.86	2.71	4.09	5.93	2.76	3.78	5.82	2.41
1989	4.16	6.08	2.79	4.22	6.15	2.83	3.99	6.05	2.64
1990	4.19	6.16	2.77	4.23	6.22	2.79	4.20	6.35	2.76
1991	4.30	6.18	2.95	4.34	6.24	2.98	4.34	6.35	2.97
1992	4.29	6.24	2.88	4.37	6.33	2.94	3.97	5.94	2.61
1993	4.16	6.09	2.75	4.22	6.18	2.77	4.07	6.09	2.75
1994	4.27	6.20	2.89	4.32	6.25	2.92	4.24	6.40	2.81
1995	4.34	6.19	2.99	4.39	6.28	3.01	4.38	6.26	3.14
1996	4.27	6.19	2.84	4.33	6.29	2.88	4.15	5.93	2.93
1997	4.27	6.19	2.86	4.32	6.23	2.91	4.32	6.55	2.84
1998	4.26	6.19	2.81	4.34	6.27	2.88	4.01	6.28	2.46
1999	4.06	5.90	2.68	4.10	5.96	2.71	4.15	6.10	2.82
2000	4.22	6.14	2.79	4.30	6.24	2.84	4.13	6.28	2.74
2001	4.27	6.24	2.80	4.34	6.33	2.84	4.26	6.45	2.82
2002	4.23	6.16	2.77	4.33	6.30	2.81	4.06	5.86	2.85
2003	4.20	6.09	2.75	4.28	6.21	2.80	4.11	6.12	2.75
2004	4.13	5.94	2.74	4.24	6.08	2.80	3.99	5.87	2.72
2005	4.13	5.95	2.74	4.22	6.04	2.81	4.04	6.11	2.61
2006	4.00	5.76	2.66	4.09	5.86	2.73	3.88	5.90	2.52
2007	4.02	5.81	2.65	4.08	5.88	2.69	4.08	5.98	2.78
2008	3.99	5.83	2.56	4.07	5.93	2.60	3.87	5.73	2.58
2009	3.93	5.75	2.51	4.01	5.83	2.55	3.95	5.80	2.65
2010	3.92	5.71	2.52	4.04	5.86	2.58	3.65	5.24	2.53
2011	3.94	5.70	2.55	4.05	5.88	2.57	3.78	5.42	2.70
2012	3.83	5.64	2.39	3.95	5.79	2.47	3.62	5.59	2.24
2013	3.86	5.60	2.46	4.00	5.78	2.54	3.53	5.30	2.27
2014	3.75	5.59	2.28	3.85	5.70	2.34	3.71	5.87	2.24
2015	3.81	5.64	2.34	3.93	5.80	2.40	3.68	5.47	2.39
2016	3.59	5.24	2.26	3.72	5.38	2.34	3.40	5.20	2.15

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 12.4  
Cancer of the Larynx (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	5.20	9.82	1.55	5.17	9.82	1.54	7.26	13.67	2.23
1980	5.25	10.02	1.53	5.16	9.89	1.51	7.34	14.47	1.83
1981	5.39	9.82	1.92	5.31	9.56	2.03	8.09	16.33	1.87
1982	5.30	9.76	1.80	5.27	9.75	1.79	7.91	14.49	2.88
1983	5.34	9.94	1.72	5.42	10.19	1.68	6.81	12.20	2.61
1984	5.10	9.62	1.58	4.99	9.58	1.46	8.46	14.85	3.44
1985	5.42	9.92	1.93	5.41	10.01	1.88	8.43	15.24	3.37
1986	5.00	9.37	1.63	4.94	9.18	1.70	7.65	15.14	2.08
1987	5.20	9.42	1.92	5.15	9.37	1.89	8.20	15.08	3.12
1988	5.20	9.58	1.87	5.18	9.56	1.86	8.23	15.05	3.21
1989	5.02	8.90	2.00	4.98	8.89	1.92	7.89	14.25	3.28
1990	5.11	9.18	1.92	5.00	8.99	1.87	9.46	17.72	3.59
1991	4.73	8.46	1.80	4.79	8.53	1.85	6.59	12.27	2.28
1992	4.98	9.08	1.76	4.87	8.89	1.72	8.73	15.86	3.40
1993	4.37	8.12	1.48	4.37	8.02	1.56	6.99	14.20	1.71
1994	4.66	8.34	1.76	4.54	8.15	1.67	8.91	15.96	3.71
1995	4.41	7.89	1.61	4.42	7.87	1.62	6.82	13.15	2.25
1996	4.27	7.56	1.64	4.26	7.55	1.62	6.38	11.28	2.78
1997	4.22	7.54	1.62	4.14	7.30	1.63	7.30	13.62	2.74
1998	3.87	6.79	1.60	3.73	6.52	1.56	6.67	12.04	2.83
1999	4.19	7.05	1.86	4.12	6.94	1.77	7.19	12.18	3.72
2000	4.06	7.29	1.44	4.05	7.21	1.48	6.26	11.74	2.28
2001	3.66	6.58	1.27	3.60	6.35	1.30	6.25	12.19	1.92
2002	3.57	6.36	1.31	3.47	6.15	1.28	6.56	11.73	2.75
2003	3.36	6.00	1.22	3.36	5.90	1.28	5.09	9.65	1.83
2004	3.47	6.12	1.36	3.45	6.01	1.37	5.79	10.80	2.38
2005	3.49	6.22	1.31	3.50	6.15	1.36	5.76	10.72	2.04
2006	3.38	5.96	1.26	3.42	5.90	1.37	5.46	10.68	1.66
2007	3.26	5.70	1.24	3.26	5.66	1.24	5.64	10.23	2.33
2008	3.14	5.55	1.16	3.23	5.67	1.15	4.39	8.03	1.83
2009	3.11	5.69	0.99	3.19	5.73	1.07	4.24	8.38	1.31
2010	3.20	5.70	1.14	3.17	5.50	1.21	5.07	9.47	1.83
2011	2.96	5.25	1.07	3.01	5.29	1.08	4.25	8.53	1.34
2012	3.01	5.29	1.11	3.06	5.29	1.15	4.72	8.84	1.86
2013	2.85	5.13	0.95	2.92	5.19	0.98	4.15	7.49	1.67
2014	2.76	4.76	1.09	2.85	4.80	1.17	4.09	7.66	1.58
2015	2.64	4.64	0.95	2.67	4.67	0.93	4.52	8.31	1.82
2016	2.67	4.72	0.95	2.74	4.73	1.03	4.08	7.85	1.34

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 12.5  
Cancer of the Larynx (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.03	7.26	1.43	4.06	7.27	1.45	6.10	11.41	2.22
1975-1979	5.20	9.82	1.55	5.17	9.82	1.54	7.26	13.67	2.23
1980	5.25	10.02	1.53	5.16	9.89	1.51	7.34	14.47	-
1981	5.39	9.82	1.92	5.31	9.56	2.03	8.09	16.33	-
1982	5.30	9.76	1.80	5.27	9.75	1.79	7.91	14.49	2.88
1983	5.34	9.94	1.72	5.42	10.19	1.68	6.81	12.20	2.61
1984	5.10	9.62	1.58	4.99	9.58	1.46	8.46	14.85	3.44
1985	5.42	9.92	1.93	5.41	10.01	1.88	8.43	15.24	3.37
1986	5.00	9.37	1.63	4.94	9.18	1.70	7.65	15.14	2.08
1987	5.20	9.42	1.92	5.15	9.37	1.89	8.20	15.08	3.12
1988	5.20	9.58	1.87	5.18	9.56	1.86	8.23	15.05	3.21
1989	5.02	8.90	2.00	4.98	8.89	1.92	7.89	14.25	3.28
1990	5.11	9.18	1.92	5.00	8.99	1.87	9.46	17.72	3.59
1991	4.73	8.46	1.80	4.79	8.53	1.85	6.59	12.27	2.28
1992	4.98	9.08	1.76	4.87	8.89	1.72	8.73	15.86	3.40
1993	4.37	8.12	1.48	4.37	8.02	1.56	6.99	14.20	1.71
1994	4.66	8.34	1.76	4.54	8.15	1.67	8.91	15.96	3.71
1995	4.41	7.89	1.61	4.42	7.87	1.62	6.82	13.15	2.25
1996	4.27	7.56	1.64	4.26	7.55	1.62	6.38	11.28	2.78
1997	4.22	7.54	1.62	4.14	7.30	1.63	7.30	13.62	2.74
1998	3.87	6.79	1.60	3.73	6.52	1.56	6.67	12.04	2.83
1999	4.19	7.05	1.86	4.12	6.94	1.77	7.19	12.18	3.72
2000	4.06	7.29	1.44	4.05	7.21	1.48	6.26	11.74	2.28
2001	3.66	6.58	1.27	3.60	6.35	1.30	6.25	12.19	1.92
2002	3.57	6.36	1.31	3.47	6.15	1.28	6.56	11.73	2.75
2003	3.36	6.00	1.22	3.36	5.90	1.28	5.09	9.65	1.83
2004	3.47	6.12	1.36	3.45	6.01	1.37	5.79	10.80	2.38
2005	3.49	6.22	1.31	3.50	6.15	1.36	5.76	10.72	2.04
2006	3.38	5.96	1.26	3.42	5.90	1.37	5.46	10.68	1.66
2007	3.26	5.70	1.24	3.26	5.66	1.24	5.64	10.23	2.33
2008	3.14	5.55	1.15	3.23	5.67	1.15	4.39	8.03	1.83
2009	3.10	5.69	0.99	3.19	5.72	1.07	4.24	8.37	1.30
2010	3.20	5.70	1.14	3.16	5.49	1.20	5.07	9.46	1.82
2011	2.95	5.25	1.07	3.00	5.28	1.08	4.24	8.51	1.33
2012	3.01	5.28	1.11	3.05	5.27	1.14	4.71	8.82	1.85
2013	2.84	5.12	0.95	2.91	5.17	0.98	4.14	7.47	1.66
2014	2.75	4.74	1.08	2.83	4.77	1.16	4.07	7.63	1.57
2015	2.62	4.61	0.94	2.64	4.62	0.92	4.49	8.25	1.81
2016	2.63	4.65	0.94	2.69	4.64	1.01	4.01	7.71	1.32

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 12.6  
Cancer of the Larynx (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	1.36	2.53	0.48	1.28	2.36	0.46	2.42	4.78	0.76
1975-1979	1.69	3.38	0.47	1.60	3.22	0.45	2.70	5.34	0.71
1980	1.61	3.17	0.48	1.49	2.95	0.44	2.91	5.73	0.87
1981	1.66	3.28	0.52	1.54	3.09	0.46	2.95	5.55	1.06
1982	1.67	3.23	0.54	1.57	3.05	0.51	2.79	5.51	0.83
1983	1.64	3.18	0.54	1.54	3.01	0.50	2.73	5.28	0.89
1984	1.63	3.16	0.53	1.50	2.90	0.51	3.05	6.21	0.75
1985	1.56	3.01	0.52	1.42	2.77	0.47	2.97	5.79	0.94
1986	1.59	3.06	0.55	1.45	2.81	0.50	3.07	6.11	0.96
1987	1.60	3.10	0.53	1.48	2.87	0.50	2.93	5.88	0.86
1988	1.58	3.04	0.53	1.43	2.73	0.51	3.21	6.73	0.76
1989	1.59	3.01	0.58	1.44	2.71	0.55	3.20	6.59	0.83
1990	1.55	2.97	0.54	1.42	2.73	0.49	3.00	5.79	1.08
1991	1.65	3.07	0.63	1.50	2.80	0.58	3.33	6.43	1.20
1992	1.61	3.00	0.61	1.46	2.73	0.57	3.26	6.39	1.07
1993	1.59	3.01	0.57	1.45	2.74	0.53	3.24	6.38	1.06
1994	1.55	2.92	0.57	1.41	2.63	0.53	3.20	6.41	1.04
1995	1.50	2.82	0.54	1.37	2.56	0.50	3.03	5.97	1.03
1996	1.50	2.78	0.56	1.36	2.49	0.53	3.16	6.35	0.97
1997	1.44	2.67	0.53	1.30	2.40	0.50	2.98	6.08	0.89
1998	1.43	2.58	0.57	1.31	2.34	0.54	2.83	5.55	0.90
1999	1.39	2.54	0.53	1.29	2.34	0.50	2.59	5.13	0.85
2000	1.39	2.55	0.52	1.27	2.32	0.49	2.79	5.46	0.95
2001	1.34	2.48	0.49	1.24	2.28	0.46	2.55	4.99	0.88
2002	1.29	2.33	0.50	1.20	2.15	0.47	2.46	4.81	0.84
2003	1.29	2.36	0.47	1.20	2.16	0.45	2.50	5.12	0.75
2004	1.22	2.25	0.44	1.15	2.09	0.43	2.23	4.57	0.66
2005	1.25	2.24	0.48	1.16	2.07	0.47	2.30	4.59	0.77
2006	1.22	2.19	0.48	1.16	2.04	0.48	2.07	4.11	0.68
2007	1.14	2.05	0.42	1.06	1.88	0.41	2.11	4.28	0.64
2008	1.15	2.05	0.45	1.10	1.93	0.44	2.01	3.89	0.74
2009	1.09	1.94	0.42	1.03	1.82	0.41	1.88	3.78	0.60
2010	1.08	1.95	0.40	1.03	1.85	0.38	1.78	3.38	0.67
2011	1.06	1.88	0.41	1.01	1.75	0.41	1.82	3.70	0.54
2012	1.02	1.83	0.38	0.97	1.72	0.37	1.71	3.38	0.58
2013	1.01	1.82	0.37	0.98	1.75	0.35	1.61	3.14	0.58
2014	0.99	1.80	0.35	0.96	1.71	0.35	1.63	3.31	0.49
2015	0.97	1.72	0.37	0.94	1.64	0.38	1.51	3.02	0.46
2016	0.97	1.69	0.37	0.94	1.63	0.37	1.53	2.84	0.59

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 13.4  
LeukemiaDelay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	12.89	17.14	9.97	13.34	17.89	10.24	10.52	13.76	8.30
1980	12.93	17.38	9.85	13.29	17.92	10.12	12.18	16.11	9.47
1981	12.38	16.47	9.65	12.65	17.03	9.82	12.27	14.47	10.37
1982	13.15	18.23	9.71	13.50	18.77	9.95	10.75	15.16	7.91
1983	13.14	17.80	9.91	13.48	18.42	10.07	12.48	15.95	10.06
1984	13.00	17.11	10.12	13.46	17.97	10.35	10.68	11.87	9.61
1985	13.39	17.78	10.39	13.76	18.32	10.66	12.32	17.03	9.30
1986	12.84	17.54	9.51	13.39	18.39	9.92	10.23	13.20	8.09
1987	13.37	17.77	10.33	13.82	18.48	10.64	12.57	17.60	9.26
1988	12.99	17.52	9.73	13.44	18.30	10.03	11.55	14.03	9.42
1989	13.48	17.70	10.49	14.02	18.36	11.02	11.26	15.80	8.11
1990	12.93	17.36	9.81	13.56	18.30	10.28	11.34	14.78	8.89
1991	13.08	16.82	10.25	13.71	17.78	10.60	10.81	12.09	9.98
1992	13.07	17.56	9.82	13.66	18.72	10.04	10.68	13.91	8.42
1993	13.09	17.11	10.08	13.67	18.04	10.37	11.68	15.29	9.14
1994	13.12	17.05	10.23	13.82	17.98	10.77	9.86	12.71	7.78
1995	13.64	17.80	10.54	14.53	18.93	11.27	9.97	13.69	7.42
1996	13.20	17.05	10.45	13.80	17.86	10.90	10.77	14.00	8.73
1997	13.26	17.70	10.04	14.10	18.80	10.68	10.67	14.23	8.29
1998	13.28	17.26	10.33	14.09	18.19	11.04	10.02	14.44	7.27
1999	12.89	17.22	9.68	13.53	18.03	10.17	10.62	14.23	8.27
2000	13.82	17.95	10.72	14.52	18.89	11.24	11.93	14.05	10.34
2001	14.49	18.86	11.19	15.45	19.99	12.01	12.00	14.60	10.20
2002	13.70	18.12	10.36	14.78	19.50	11.19	9.14	12.07	7.09
2003	13.79	18.06	10.54	14.61	19.25	11.07	11.58	15.09	9.06
2004	14.07	18.30	10.85	14.81	19.20	11.39	13.06	17.84	10.04
2005	13.99	18.32	10.66	14.91	19.77	11.11	11.55	13.10	10.41
2006	14.08	17.60	11.44	15.12	18.71	12.43	11.31	15.40	8.48
2007	13.64	17.88	10.43	14.73	19.24	11.23	10.03	13.77	7.75
2008	14.30	18.68	10.85	15.26	19.92	11.54	11.12	15.16	8.18
2009	14.03	18.10	10.87	14.97	19.36	11.46	11.51	15.63	8.78
2010	14.93	19.55	11.42	16.08	20.99	12.25	11.27	15.01	9.02
2011	15.25	19.56	11.79	16.28	20.83	12.57	13.03	15.45	11.08
2012	15.10	19.07	11.97	16.25	20.37	12.92	12.38	15.82	10.08
2013	15.12	19.48	11.65	16.39	20.93	12.73	12.23	16.28	9.22
2014	15.33	20.00	11.63	16.55	21.38	12.61	12.00	15.15	9.81
2015	14.97	19.07	11.60	16.30	20.81	12.46	11.50	13.45	10.28
2016	15.25	19.86	11.47	16.61	21.57	12.41	13.12	16.89	10.50

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 13.5  
LeukemiaAge-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	13.54	17.75	10.41	14.25	18.74	10.91	11.20	14.46	8.95
1975-1979	12.89	17.14	9.97	13.34	17.89	10.24	10.52	13.76	8.30
1980	12.93	17.38	9.85	13.29	17.92	10.12	12.18	16.11	9.47
1981	12.38	16.47	9.65	12.65	17.03	9.82	12.27	14.47	10.37
1982	13.15	18.23	9.71	13.50	18.77	9.95	10.75	15.16	7.91
1983	13.14	17.80	9.91	13.48	18.42	10.07	12.48	15.95	10.06
1984	13.00	17.11	10.12	13.46	17.97	10.35	10.68	11.87	9.61
1985	13.39	17.78	10.39	13.76	18.32	10.66	12.32	17.03	9.30
1986	12.84	17.54	9.51	13.39	18.39	9.92	10.23	13.20	8.09
1987	13.37	17.77	10.33	13.82	18.48	10.64	12.57	17.60	9.26
1988	12.99	17.52	9.73	13.44	18.30	10.03	11.55	14.03	9.42
1989	13.48	17.70	10.49	14.02	18.36	11.02	11.26	15.80	8.11
1990	12.93	17.36	9.81	13.56	18.30	10.28	11.34	14.78	8.89
1991	13.08	16.82	10.25	13.71	17.78	10.60	10.81	12.09	9.98
1992	13.07	17.56	9.82	13.66	18.72	10.04	10.68	13.91	8.42
1993	13.09	17.11	10.08	13.67	18.04	10.37	11.68	15.29	9.14
1994	13.12	17.05	10.23	13.82	17.98	10.77	9.86	12.71	7.78
1995	13.64	17.80	10.54	14.53	18.93	11.27	9.97	13.69	7.42
1996	13.20	17.05	10.45	13.80	17.86	10.90	10.77	14.00	8.73
1997	13.26	17.70	10.04	14.10	18.80	10.68	10.67	14.23	8.29
1998	13.28	17.26	10.33	14.09	18.19	11.04	10.02	14.44	7.27
1999	12.89	17.22	9.68	13.53	18.03	10.17	10.62	14.23	8.27
2000	13.82	17.95	10.72	14.52	18.89	11.24	11.93	14.05	10.34
2001	14.49	18.86	11.19	15.45	19.99	12.01	12.00	14.60	10.20
2002	13.70	18.12	10.36	14.78	19.50	11.19	9.14	12.07	7.09
2003	13.79	18.06	10.54	14.61	19.25	11.07	11.58	15.09	9.06
2004	14.07	18.30	10.85	14.81	19.20	11.39	13.06	17.84	10.04
2005	13.99	18.32	10.66	14.91	19.77	11.11	11.55	13.10	10.41
2006	14.08	17.60	11.44	15.12	18.71	12.43	11.31	15.40	8.48
2007	13.64	17.88	10.43	14.73	19.24	11.23	10.03	13.77	7.75
2008	14.19	18.53	10.77	15.12	19.74	11.43	11.06	15.08	8.13
2009	13.81	17.81	10.70	14.69	18.99	11.25	11.37	15.43	8.68
2010	14.58	19.07	11.16	15.63	20.40	11.91	11.07	14.73	8.87
2011	14.78	18.94	11.43	15.69	20.06	12.12	12.71	15.10	10.80
2012	14.52	18.32	11.51	15.50	19.43	12.34	12.01	15.32	9.80
2013	14.41	18.56	11.11	15.50	19.78	12.04	11.77	15.66	8.88
2014	14.42	18.79	10.96	15.42	19.91	11.76	11.36	14.32	9.30
2015	13.84	17.61	10.74	14.88	18.99	11.38	10.71	12.50	9.60
2016	13.80	17.92	10.41	14.79	19.19	11.07	11.89	15.29	9.52

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 13.6  
Acute Lymphocytic Leukemia

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	1.39	1.59	1.20	1.47	1.68	1.26	0.86	0.98	0.76
1975-1979	1.03	1.22	0.86	1.08	1.29	0.90	0.54	0.59	0.49
1980	1.12	1.40	0.88	1.16	1.47	0.90	0.73	-	-
1981	1.24	1.31	1.18	1.30	1.39	1.23	0.95	-	-
1982	1.23	1.50	0.99	1.30	1.56	1.05	-	-	-
1983	1.29	1.52	1.08	1.39	1.64	1.18	0.80	-	-
1984	1.32	1.48	1.20	1.34	1.49	1.24	0.92	-	-
1985	1.30	1.55	1.09	1.35	1.62	1.12	-	-	-
1986	1.30	1.67	0.96	1.38	1.82	0.96	0.77	-	-
1987	1.32	1.48	1.19	1.36	1.54	1.21	0.89	-	1.15
1988	1.40	1.79	1.07	1.44	1.84	1.12	0.98	-	-
1989	1.62	1.82	1.43	1.69	1.90	1.49	1.03	-	-
1990	1.42	1.76	1.16	1.52	1.85	1.29	0.57	-	-
1991	1.38	1.72	1.05	1.51	1.94	1.09	0.86	-	-
1992	1.35	1.59	1.14	1.40	1.73	1.09	0.91	-	-
1993	1.26	1.41	1.09	1.38	1.57	1.15	0.82	-	-
1994	1.19	1.48	0.93	1.28	1.59	1.01	0.68	-	-
1995	1.50	1.80	1.21	1.61	1.87	1.36	0.98	1.32	-
1996	1.39	1.56	1.21	1.46	1.65	1.26	0.85	-	-
1997	1.33	1.51	1.16	1.44	1.60	1.28	0.79	0.98	-
1998	1.46	1.61	1.31	1.57	1.69	1.44	0.93	1.16	-
1999	1.31	1.49	1.14	1.40	1.56	1.24	0.68	-	-
2000	1.40	1.51	1.29	1.52	1.61	1.45	0.87	-	-
2001	1.46	1.66	1.26	1.58	1.82	1.34	0.70	-	-
2002	1.50	1.79	1.20	1.65	2.00	1.29	0.62	-	-
2003	1.43	1.66	1.22	1.47	1.70	1.27	0.78	0.97	-
2004	1.55	1.71	1.39	1.67	1.96	1.38	1.12	-	1.43
2005	1.58	1.88	1.29	1.66	1.94	1.38	0.97	1.18	-
2006	1.45	1.63	1.28	1.51	1.64	1.39	0.97	1.42	-
2007	1.52	1.67	1.38	1.60	1.71	1.50	0.95	1.06	-
2008	1.50	1.86	1.15	1.68	2.03	1.32	0.91	1.32	-
2009	1.47	1.61	1.35	1.57	1.74	1.42	0.96	1.08	0.85
2010	1.46	1.55	1.36	1.58	1.64	1.51	0.97	1.10	0.85
2011	1.78	1.89	1.67	1.94	2.00	1.89	1.33	1.64	1.01
2012	1.48	1.53	1.43	1.60	1.63	1.58	1.12	1.45	0.89
2013	1.62	1.79	1.45	1.75	1.92	1.58	0.97	1.32	-
2014	1.59	1.74	1.44	1.68	1.91	1.46	0.85	-	1.06
2015	1.49	1.72	1.26	1.58	1.81	1.34	0.79	0.96	-
2016	1.69	1.88	1.49	1.71	2.00	1.41	1.04	1.18	0.92

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 13.7  
Chronic Lymphocytic Leukemia

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.89	6.78	3.48	5.32	7.39	3.79	3.83	5.41	2.74
1975-1979	4.32	6.00	3.17	4.54	6.35	3.32	3.81	5.35	2.78
1980	4.52	6.31	3.33	4.70	6.55	3.46	4.51	7.06	2.89
1981	4.27	6.30	2.90	4.47	6.63	3.06	3.82	5.41	2.47
1982	4.30	6.14	3.01	4.50	6.39	3.18	3.77	6.65	-
1983	4.45	6.40	3.13	4.67	6.78	3.25	4.21	6.11	3.03
1984	4.43	6.30	3.12	4.72	6.82	3.29	3.45	4.46	2.65
1985	4.49	6.21	3.31	4.80	6.63	3.54	4.11	6.15	2.87
1986	4.50	6.33	3.24	4.87	6.85	3.54	2.79	4.18	-
1987	4.66	6.81	3.07	4.95	7.26	3.28	4.03	6.14	2.45
1988	4.55	6.46	3.15	4.77	6.88	3.27	4.43	5.32	3.53
1989	4.70	6.44	3.47	5.01	6.91	3.68	3.91	5.15	3.04
1990	4.61	6.31	3.42	4.92	6.78	3.63	4.51	6.13	3.43
1991	4.60	6.20	3.43	5.00	6.81	3.64	3.40	3.75	3.15
1992	4.62	6.74	3.17	5.06	7.43	3.43	3.21	4.96	2.08
1993	4.46	6.15	3.17	4.74	6.56	3.36	4.52	6.79	2.89
1994	4.62	6.14	3.47	5.06	6.72	3.84	3.19	4.13	2.32
1995	4.56	6.44	3.20	4.99	7.02	3.52	3.39	5.34	2.06
1996	4.74	6.37	3.56	5.18	6.90	3.94	3.52	5.36	2.26
1997	4.51	6.10	3.31	4.93	6.65	3.63	3.57	5.18	2.52
1998	4.27	5.99	3.01	4.71	6.58	3.35	2.85	3.73	2.29
1999	4.18	6.07	2.77	4.53	6.55	3.01	3.87	6.00	2.60
2000	4.70	6.60	3.25	5.20	7.34	3.54	3.44	4.50	2.72
2001	5.34	7.41	3.79	5.90	8.17	4.20	3.95	4.89	3.28
2002	5.14	7.24	3.56	5.74	8.07	3.99	3.19	4.53	2.20
2003	5.39	7.47	3.83	5.96	8.30	4.18	4.39	6.21	3.12
2004	5.60	7.68	4.02	6.11	8.19	4.50	5.01	8.16	2.89
2005	5.45	7.77	3.67	6.07	8.76	3.95	4.02	4.85	3.46
2006	5.85	7.70	4.47	6.48	8.45	5.00	4.60	6.76	3.17
2007	5.42	7.54	3.80	6.12	8.42	4.32	3.14	4.80	2.25
2008	5.57	7.49	4.09	6.21	8.24	4.63	3.86	5.83	2.41
2009	5.45	7.52	3.82	6.06	8.34	4.21	4.06	5.93	2.90
2010	5.62	7.81	3.95	6.26	8.58	4.44	3.65	5.28	2.64
2011	5.56	7.49	4.01	6.11	8.22	4.39	4.52	5.51	3.79
2012	5.31	7.11	3.87	5.93	7.83	4.37	3.72	4.93	2.93
2013	5.24	7.24	3.63	5.86	8.03	4.10	4.36	6.50	2.77
2014	5.31	7.48	3.55	5.95	8.27	4.04	3.79	6.06	2.20
2015	5.07	6.84	3.60	5.72	7.64	4.07	3.45	4.61	2.64
2016	4.76	6.56	3.27	5.37	7.36	3.68	3.81	5.09	2.89

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.



Table 13.8  
Acute Myeloid Leukemia

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	3.66	4.55	3.04	3.73	4.64	3.09	3.24	3.86	2.84
1975-1979	3.43	4.25	2.88	3.51	4.38	2.93	2.61	2.97	2.34
1980	3.14	4.10	2.43	3.17	4.11	2.49	2.88	3.28	2.53
1981	3.17	3.99	2.65	3.21	4.11	2.68	3.15	3.22	3.02
1982	3.42	4.79	2.60	3.47	4.90	2.63	2.50	3.22	2.09
1983	3.21	4.22	2.53	3.17	4.28	2.41	2.93	3.02	2.92
1984	3.30	4.06	2.73	3.35	4.17	2.77	2.35	2.10	2.44
1985	3.33	4.15	2.87	3.25	4.02	2.84	3.78	5.06	2.99
1986	3.00	3.91	2.40	2.95	3.85	2.38	3.21	4.04	2.68
1987	3.02	3.97	2.47	3.03	4.00	2.47	3.05	4.73	2.12
1988	3.03	3.79	2.52	3.08	3.87	2.57	2.79	3.14	2.49
1989	3.20	4.01	2.62	3.30	4.04	2.79	2.22	3.79	-
1990	3.04	3.91	2.43	3.12	4.07	2.46	2.49	2.89	2.19
1991	3.33	3.93	2.88	3.38	3.90	2.98	3.34	4.53	2.59
1992	3.22	3.85	2.76	3.28	4.03	2.75	3.05	2.99	3.05
1993	3.45	4.31	2.86	3.52	4.45	2.86	2.48	2.62	2.55
1994	3.46	4.14	3.02	3.48	4.24	2.97	2.94	3.24	2.77
1995	3.66	4.17	3.31	3.81	4.32	3.45	2.62	2.62	2.73
1996	3.47	4.33	2.91	3.46	4.29	2.94	3.21	4.05	2.73
1997	3.53	4.61	2.77	3.66	4.82	2.85	3.02	3.83	2.55
1998	3.93	4.94	3.21	4.06	5.06	3.32	3.05	4.64	2.11
1999	3.73	4.51	3.18	3.85	4.63	3.30	3.03	3.45	2.76
2000	4.05	4.95	3.41	4.04	4.95	3.39	4.41	4.88	4.01
2001	4.06	4.95	3.39	4.20	5.00	3.61	3.45	4.08	3.00
2002	3.63	4.58	2.98	3.78	4.78	3.11	2.91	3.31	2.67
2003	3.60	4.49	2.96	3.67	4.60	3.02	3.33	3.52	2.96
2004	3.42	4.15	2.93	3.51	4.23	3.00	3.39	4.31	3.01
2005	3.59	4.26	3.17	3.65	4.38	3.19	3.49	3.47	3.58
2006	3.55	4.11	3.15	3.67	4.22	3.27	2.84	3.34	2.57
2007	3.55	4.38	2.98	3.66	4.48	3.09	3.38	4.45	2.72
2008	3.82	4.69	3.18	3.86	4.85	3.08	3.07	3.78	2.74
2009	3.64	4.42	3.08	3.76	4.64	3.10	3.13	3.98	2.55
2010	4.24	5.39	3.41	4.44	5.68	3.50	3.36	4.54	2.62
2011	4.21	5.14	3.47	4.25	5.18	3.49	4.22	4.52	3.99
2012	4.58	5.61	3.77	4.68	5.72	3.87	3.85	4.49	3.42
2013	4.48	5.42	3.80	4.66	5.55	4.02	4.16	5.08	3.47
2014	4.39	5.31	3.71	4.60	5.48	3.95	3.78	4.53	3.18
2015	4.26	5.18	3.58	4.42	5.39	3.67	3.72	4.15	3.51
2016	4.31	5.42	3.47	4.47	5.56	3.61	4.08	4.89	3.58

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 13.9  
Chronic Myeloid Leukemia

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	1.81	2.38	1.38	1.84	2.42	1.41	1.83	2.37	1.44
1975-1979	1.83	2.44	1.41	1.84	2.47	1.41	1.80	2.39	1.36
1980	1.70	2.06	1.46	1.73	2.10	1.51	1.48	-	-
1981	1.64	1.97	1.41	1.59	1.90	1.39	2.38	3.00	1.81
1982	1.68	2.16	1.35	1.65	2.19	1.31	1.75	-	1.79
1983	1.69	2.23	1.33	1.64	2.15	1.32	2.51	3.44	1.85
1984	1.68	2.40	1.18	1.63	2.41	1.10	2.58	2.61	2.59
1985	1.97	2.76	1.43	2.00	2.80	1.47	2.06	2.89	-
1986	1.68	2.19	1.29	1.71	2.25	1.31	1.54	-	-
1987	1.88	2.33	1.58	1.91	2.39	1.58	2.14	2.88	-
1988	1.91	2.54	1.50	1.92	2.59	1.49	2.08	2.88	-
1989	1.70	2.22	1.35	1.68	2.18	1.35	2.21	3.12	-
1990	1.76	2.47	1.24	1.75	2.50	1.20	2.63	3.66	1.95
1991	1.88	2.44	1.47	1.91	2.55	1.46	1.56	-	1.75
1992	1.76	2.16	1.47	1.80	2.22	1.49	1.49	1.73	-
1993	1.92	2.53	1.48	1.95	2.52	1.55	2.28	3.56	-
1994	1.87	2.49	1.42	1.90	2.49	1.50	1.70	2.57	-
1995	1.90	2.56	1.38	1.96	2.69	1.39	1.59	2.09	-
1996	1.81	2.45	1.35	1.80	2.51	1.28	2.06	2.54	1.83
1997	1.87	2.68	1.30	1.94	2.74	1.37	1.67	2.53	-
1998	1.66	1.95	1.43	1.73	1.98	1.54	1.61	2.31	1.20
1999	1.80	2.49	1.28	1.77	2.44	1.28	1.72	2.30	1.26
2000	1.79	2.34	1.35	1.80	2.33	1.40	1.59	1.80	1.33
2001	1.80	2.36	1.38	1.85	2.37	1.46	1.97	2.83	1.36
2002	1.64	2.09	1.30	1.67	2.12	1.34	1.13	-	-
2003	1.66	2.24	1.20	1.76	2.37	1.27	1.47	2.18	-
2004	1.81	2.56	1.22	1.87	2.66	1.25	1.51	2.06	1.11
2005	1.69	2.26	1.25	1.77	2.35	1.31	1.78	2.44	1.34
2006	1.84	2.40	1.41	1.94	2.51	1.51	1.58	2.17	1.11
2007	1.71	2.32	1.23	1.80	2.49	1.23	1.43	1.83	1.19
2008	1.85	2.39	1.43	1.86	2.32	1.51	1.89	2.67	1.21
2009	1.80	2.38	1.34	1.79	2.31	1.39	1.90	2.89	1.28
2010	1.88	2.51	1.40	1.88	2.54	1.36	1.91	2.12	1.83
2011	1.95	2.55	1.47	2.06	2.71	1.51	1.66	1.95	1.39
2012	1.93	2.33	1.61	1.97	2.38	1.65	2.12	2.81	1.62
2013	1.93	2.60	1.39	1.98	2.67	1.40	1.72	2.26	1.42
2014	1.97	2.59	1.46	1.95	2.52	1.46	2.05	1.96	2.13
2015	1.85	2.30	1.46	1.94	2.41	1.52	1.69	1.85	1.56
2016	2.04	2.65	1.56	2.16	2.72	1.71	1.98	2.88	1.40

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 13.10  
LeukemiaAge-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	7.52	10.08	5.75	7.73	10.38	5.89	6.56	8.65	5.20
1975-1979	8.12	10.92	6.24	8.29	11.20	6.34	6.78	8.80	5.36
1980	8.36	11.21	6.46	8.54	11.51	6.56	7.05	9.09	5.67
1981	8.10	10.89	6.24	8.24	11.16	6.31	7.11	8.92	5.86
1982	8.19	11.04	6.31	8.33	11.29	6.39	7.14	9.36	5.67
1983	8.11	10.93	6.26	8.24	11.19	6.32	7.22	9.21	5.90
1984	8.08	10.68	6.37	8.23	10.91	6.47	7.08	9.16	5.69
1985	8.07	10.77	6.31	8.23	10.97	6.44	7.08	9.62	5.42
1986	7.96	10.71	6.16	8.10	10.97	6.23	7.25	9.26	5.91
1987	7.80	10.31	6.14	7.91	10.50	6.20	7.24	9.41	5.85
1988	7.83	10.60	6.00	7.95	10.79	6.08	7.24	9.83	5.58
1989	7.95	10.62	6.15	8.07	10.75	6.26	7.36	10.34	5.45
1990	7.98	10.71	6.18	8.10	10.90	6.26	7.44	9.96	5.83
1991	7.99	10.50	6.32	8.12	10.64	6.44	7.45	10.05	5.80
1992	7.96	10.71	6.13	8.11	10.94	6.24	7.16	9.41	5.68
1993	7.93	10.66	6.09	8.04	10.84	6.16	7.36	9.76	5.77
1994	7.85	10.57	6.03	8.00	10.78	6.13	7.12	9.59	5.54
1995	7.90	10.80	5.98	8.04	11.03	6.05	7.17	9.75	5.53
1996	7.84	10.53	6.05	7.97	10.71	6.13	7.46	10.09	5.90
1997	7.71	10.42	5.89	7.89	10.68	6.01	6.83	9.23	5.29
1998	7.58	10.11	5.82	7.72	10.31	5.91	7.04	9.37	5.55
1999	7.68	10.22	5.96	7.87	10.47	6.09	6.74	8.78	5.43
2000	7.69	10.28	5.91	7.89	10.54	6.05	6.71	9.07	5.27
2001	7.64	10.19	5.88	7.83	10.46	6.02	6.74	8.80	5.41
2002	7.54	10.18	5.73	7.75	10.46	5.85	6.73	8.91	5.38
2003	7.45	10.02	5.63	7.68	10.37	5.76	6.54	8.47	5.30
2004	7.29	9.81	5.52	7.47	10.04	5.64	6.77	8.94	5.39
2005	7.26	9.82	5.46	7.50	10.14	5.63	6.07	8.11	4.78
2006	7.23	9.70	5.46	7.48	9.97	5.66	6.27	8.84	4.70
2007	7.08	9.54	5.33	7.30	9.86	5.46	6.19	8.07	5.05
2008	7.09	9.54	5.33	7.32	9.83	5.49	6.27	8.65	4.78
2009	7.06	9.53	5.25	7.31	9.86	5.41	6.05	8.14	4.71
2010	6.91	9.25	5.20	7.16	9.58	5.37	5.75	7.46	4.59
2011	6.95	9.28	5.24	7.18	9.60	5.39	5.99	7.74	4.85
2012	6.83	9.21	5.07	7.08	9.57	5.22	5.77	7.56	4.62
2013	6.75	9.09	5.03	7.03	9.43	5.23	5.68	7.70	4.37
2014	6.62	8.82	4.96	6.91	9.21	5.15	5.47	7.17	4.37
2015	6.28	8.46	4.64	6.55	8.82	4.82	5.20	6.84	4.15
2016	6.27	8.28	4.75	6.53	8.64	4.91	5.43	6.87	4.49

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 14.4  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	2.67	4.05	1.64	2.23	3.31	1.45	4.08	6.32	2.29
1980	2.63	3.94	1.67	2.26	3.28	1.56	3.62	5.01	2.47
1981	2.93	4.65	1.66	2.49	3.88	1.51	4.59	7.09	2.53
1982	2.94	4.37	1.88	2.40	3.48	1.64	3.85	5.40	2.63
1983	2.91	4.68	1.58	2.38	3.74	1.41	4.11	6.30	2.33
1984	2.86	4.27	1.87	2.32	3.41	1.61	3.34	5.26	1.91
1985	3.16	5.09	1.73	2.60	4.15	1.51	3.91	7.51	1.27
1986	3.20	4.78	2.02	2.61	3.89	1.70	5.03	7.56	3.20
1987	3.39	4.84	2.21	2.66	3.64	1.87	5.46	7.69	3.73
1988	3.39	5.45	1.82	2.71	4.25	1.59	4.84	8.86	1.82
1989	3.60	5.58	2.17	2.86	4.28	1.89	5.28	9.07	2.60
1990	3.94	6.04	2.30	3.06	4.66	1.86	6.50	10.61	3.47
1991	4.33	6.68	2.58	3.53	5.55	2.12	5.95	9.24	3.48
1992	4.00	6.09	2.39	3.19	4.83	1.94	5.63	8.42	3.43
1993	4.51	7.16	2.48	3.70	5.91	2.07	6.19	10.12	3.09
1994	4.46	6.99	2.49	3.60	5.60	2.09	5.05	9.52	1.86
1995	4.55	6.80	2.81	3.57	5.37	2.24	6.10	8.58	4.04
1996	5.42	8.29	3.14	4.41	6.76	2.63	6.72	10.96	3.55
1997	5.37	8.05	3.17	4.39	6.56	2.61	7.47	11.37	4.52
1998	5.48	8.34	3.14	4.54	6.95	2.57	6.51	9.64	4.06
1999	5.84	8.87	3.35	4.75	7.22	2.73	7.78	12.32	4.39
2000	5.63	8.52	3.23	4.69	7.05	2.73	7.00	11.73	3.52
2001	5.62	8.70	3.14	4.35	6.61	2.55	7.89	13.79	3.40
2002	5.75	8.75	3.25	4.64	7.05	2.59	7.40	11.95	3.89
2003	6.16	9.46	3.33	5.00	7.73	2.66	7.77	12.52	3.99
2004	6.46	10.10	3.35	5.16	8.03	2.68	9.46	15.89	4.53
2005	6.86	10.46	3.76	5.52	8.58	2.89	9.43	14.98	4.89
2006	7.19	11.09	3.80	5.84	9.18	2.91	9.78	15.27	5.33
2007	7.46	11.64	3.82	6.02	9.45	3.00	10.11	17.55	4.50
2008	7.67	11.77	4.14	6.39	9.73	3.47	11.02	19.24	4.88
2009	8.08	12.57	4.17	6.61	10.26	3.38	11.87	19.48	5.83
2010	8.21	12.57	4.41	6.75	10.37	3.55	11.94	19.64	5.98
2011	8.64	13.32	4.55	7.24	11.13	3.78	11.70	19.80	5.27
2012	8.68	13.49	4.49	7.40	11.57	3.67	12.21	20.61	5.74
2013	8.78	13.44	4.68	7.52	11.41	4.00	11.86	19.45	5.93
2014	8.90	13.50	4.83	7.67	11.70	4.02	11.59	19.31	5.76
2015	9.21	14.08	4.98	7.83	11.80	4.28	12.48	20.62	6.31
2016	8.98	13.53	4.97	7.74	11.69	4.18	12.36	19.05	7.19

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 14.5  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	5.75	8.91	3.15	4.68	7.24	2.57	8.35	13.64	4.26
1975-1979	2.67	4.05	1.64	2.23	3.31	1.45	4.08	6.32	2.29
1980	2.63	3.94	1.67	2.26	3.28	1.56	3.62	5.01	2.47
1981	2.93	4.65	1.66	2.49	3.88	1.51	4.59	7.09	2.53
1982	2.94	4.37	1.88	2.40	3.48	1.64	3.85	5.40	2.63
1983	2.91	4.68	1.58	2.38	3.74	1.41	4.11	6.30	2.33
1984	2.86	4.27	1.87	2.32	3.41	1.61	3.34	5.26	1.91
1985	3.16	5.09	1.73	2.60	4.15	1.51	3.91	7.51	-
1986	3.20	4.78	2.02	2.61	3.89	1.70	5.03	7.56	3.20
1987	3.39	4.84	2.21	2.66	3.64	1.87	5.46	7.69	3.73
1988	3.39	5.45	1.82	2.71	4.25	1.59	4.84	8.86	-
1989	3.60	5.58	2.17	2.86	4.28	1.89	5.28	9.07	2.60
1990	3.94	6.04	2.30	3.06	4.66	1.86	6.50	10.61	3.47
1991	4.33	6.68	2.58	3.53	5.55	2.12	5.95	9.24	3.48
1992	4.00	6.09	2.39	3.19	4.83	1.94	5.63	8.42	3.43
1993	4.51	7.16	2.48	3.70	5.91	2.07	6.19	10.12	3.09
1994	4.46	6.99	2.49	3.60	5.60	2.09	5.05	9.52	1.86
1995	4.55	6.80	2.81	3.57	5.37	2.24	6.10	8.58	4.04
1996	5.42	8.29	3.14	4.41	6.76	2.63	6.72	10.96	3.55
1997	5.37	8.05	3.17	4.39	6.56	2.61	7.47	11.37	4.52
1998	5.48	8.34	3.14	4.54	6.95	2.57	6.51	9.64	4.06
1999	5.84	8.87	3.35	4.75	7.22	2.73	7.78	12.32	4.39
2000	5.63	8.52	3.23	4.69	7.05	2.73	7.00	11.73	3.52
2001	5.62	8.70	3.14	4.35	6.61	2.55	7.89	13.79	3.40
2002	5.75	8.75	3.25	4.64	7.05	2.59	7.40	11.95	3.89
2003	6.16	9.46	3.33	5.00	7.73	2.66	7.77	12.52	3.99
2004	6.46	10.10	3.35	5.16	8.03	2.68	9.46	15.89	4.53
2005	6.86	10.46	3.76	5.52	8.58	2.89	9.43	14.98	4.89
2006	7.19	11.09	3.80	5.84	9.18	2.91	9.78	15.27	5.33
2007	7.46	11.64	3.82	6.02	9.45	3.00	10.11	17.55	4.50
2008	7.66	11.76	4.13	6.38	9.72	3.46	11.01	19.22	4.88
2009	8.06	12.54	4.16	6.60	10.23	3.37	11.85	19.44	5.82
2010	8.18	12.52	4.39	6.73	10.34	3.54	11.89	19.57	5.96
2011	8.60	13.25	4.53	7.21	11.09	3.77	11.65	19.71	5.24
2012	8.63	13.41	4.46	7.36	11.51	3.66	12.14	20.50	5.71
2013	8.71	13.34	4.65	7.47	11.33	3.98	11.78	19.32	5.89
2014	8.80	13.35	4.78	7.60	11.58	3.98	11.50	19.14	5.72
2015	9.06	13.85	4.90	7.71	11.61	4.22	12.29	20.29	6.22
2016	8.63	13.01	4.77	7.42	11.21	4.00	11.85	18.24	6.90

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 14.6  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.65	6.85	2.92	4.26	6.22	2.72	6.50	10.15	3.79
1975-1979	2.78	3.85	1.99	2.57	3.49	1.91	4.45	6.79	2.68
1980	2.78	3.88	2.00	2.56	3.51	1.91	4.49	6.78	2.78
1981	2.87	4.11	1.99	2.67	3.76	1.91	4.40	6.67	2.73
1982	2.94	4.20	2.05	2.69	3.79	1.93	4.69	7.16	2.93
1983	2.92	4.20	2.00	2.63	3.72	1.87	4.80	7.27	3.00
1984	3.02	4.35	2.07	2.74	3.85	1.98	4.82	7.93	2.65
1985	3.11	4.40	2.19	2.85	3.94	2.08	4.57	7.18	2.74
1986	3.15	4.53	2.15	2.88	4.08	2.03	4.72	7.26	2.90
1987	3.20	4.56	2.20	2.92	4.14	2.04	4.76	6.90	3.23
1988	3.30	4.82	2.21	3.02	4.38	2.08	4.76	7.24	3.03
1989	3.44	5.02	2.29	3.13	4.51	2.15	5.10	8.00	3.09
1990	3.61	5.27	2.43	3.27	4.74	2.25	5.29	7.81	3.59
1991	3.69	5.32	2.51	3.35	4.80	2.32	5.29	7.97	3.48
1992	3.91	5.71	2.59	3.56	5.17	2.40	5.45	8.50	3.32
1993	4.04	5.82	2.74	3.71	5.32	2.56	5.49	8.10	3.59
1994	4.13	6.02	2.73	3.77	5.42	2.55	5.72	8.90	3.53
1995	4.36	6.31	2.91	3.97	5.71	2.69	6.21	9.30	4.11
1996	4.44	6.46	2.91	4.08	5.87	2.73	5.90	9.07	3.68
1997	4.50	6.53	2.97	4.11	5.91	2.75	6.02	8.89	3.92
1998	4.59	6.74	2.92	4.19	6.08	2.73	6.38	10.13	3.70
1999	4.52	6.50	2.95	4.15	5.95	2.73	5.95	8.76	3.82
2000	4.64	6.80	2.94	4.22	6.15	2.71	6.08	9.54	3.58
2001	4.72	6.94	2.98	4.33	6.37	2.73	6.25	9.12	4.08
2002	4.88	7.18	3.03	4.49	6.53	2.84	6.33	9.96	3.65
2003	5.02	7.39	3.12	4.58	6.73	2.85	6.65	10.30	4.03
2004	5.13	7.42	3.23	4.68	6.73	2.98	6.92	10.67	4.11
2005	5.27	7.78	3.21	4.84	7.09	2.99	6.97	11.18	3.79
2006	5.30	7.72	3.29	4.88	7.04	3.09	6.96	10.92	3.91
2007	5.37	7.91	3.26	4.98	7.23	3.09	7.01	11.32	3.81
2008	5.57	8.34	3.26	5.15	7.63	3.05	7.35	11.92	3.94
2009	5.78	8.58	3.43	5.34	7.86	3.21	7.76	12.17	4.33
2010	5.91	8.74	3.54	5.47	8.00	3.32	7.73	12.28	4.26
2011	6.13	9.05	3.64	5.68	8.34	3.39	8.10	12.77	4.53
2012	6.34	9.36	3.77	5.91	8.65	3.54	8.26	13.25	4.45
2013	6.47	9.54	3.85	6.03	8.80	3.64	8.38	13.45	4.54
2014	6.48	9.48	3.92	6.05	8.79	3.68	8.38	13.04	4.79
2015	6.60	9.65	3.98	6.20	8.95	3.81	8.34	13.36	4.52
2016	6.66	9.69	4.07	6.28	9.06	3.85	8.51	13.00	5.11

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 15.5  
Cancer of the Lung and Bronchus (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	56.22	94.32	28.33	55.60	93.59	28.39	72.01	125.85	30.72
1980	60.65	99.96	32.21	59.42	97.69	32.36	86.62	151.43	38.25
1981	62.03	99.41	35.11	61.53	98.44	35.52	82.31	142.96	37.45
1982	63.29	100.69	36.73	63.05	99.68	37.68	80.37	141.06	35.68
1983	63.45	99.46	37.88	63.03	97.63	39.09	86.62	151.34	39.49
1984	65.49	102.05	39.45	64.33	99.89	39.61	92.93	158.84	44.82
1985	64.61	98.59	40.25	63.97	96.84	40.87	89.56	149.68	46.04
1986	65.77	99.03	42.29	65.14	97.32	42.94	92.94	156.27	48.67
1987	67.90	101.51	44.16	68.08	100.66	45.49	84.76	143.59	43.28
1988	68.06	98.70	46.34	68.26	97.92	47.73	88.24	144.93	48.26
1989	67.56	97.96	46.12	67.57	97.06	47.26	89.04	142.77	51.37
1990	68.08	96.91	47.79	68.23	96.11	48.96	86.78	137.17	52.13
1991	69.19	97.20	49.58	68.96	95.88	50.63	93.13	144.76	57.03
1992	69.46	97.20	49.85	68.92	94.89	51.04	93.99	148.73	56.06
1993	67.75	93.95	49.15	67.80	92.51	50.63	86.36	135.35	52.54
1994	67.17	90.93	50.54	67.28	90.13	51.61	87.16	131.39	56.53
1995	66.85	89.82	50.43	67.09	87.95	52.43	85.87	138.94	50.12
1996	66.46	87.96	51.24	66.78	86.66	52.97	84.57	128.35	55.73
1997	66.62	86.31	52.59	67.19	84.80	54.93	82.27	129.54	50.49
1998	67.55	88.02	52.98	68.00	86.60	55.02	87.52	130.87	58.30
1999	65.83	84.57	52.50	66.28	83.25	54.42	84.56	122.46	58.85
2000	64.14	82.11	51.22	64.65	80.78	53.21	80.71	115.09	57.81
2001	64.15	81.41	51.65	65.04	81.07	53.48	80.63	114.51	57.82
2002	64.06	80.43	52.50	64.79	79.84	54.23	81.48	113.10	60.71
2003	64.76	81.05	53.09	65.51	79.56	55.65	81.20	119.56	55.73
2004	62.24	76.28	52.07	62.79	75.30	53.77	76.16	105.27	57.02
2005	63.03	75.82	53.85	64.01	75.53	55.80	74.69	97.97	59.49
2006	62.30	74.29	53.45	62.82	73.08	55.35	76.75	101.10	59.96
2007	62.09	73.75	53.58	63.12	72.86	56.05	74.13	100.68	56.55
2008	60.41	72.20	51.86	61.15	70.78	54.29	75.03	103.42	56.12
2009	60.05	70.74	52.32	60.73	69.79	54.17	74.37	98.20	58.67
2010	57.81	68.08	50.18	58.90	67.87	52.19	67.23	85.82	55.00
2011	56.35	65.78	49.44	57.36	65.42	51.45	65.92	86.52	52.56
2012	55.37	64.14	48.84	55.80	63.04	50.44	69.69	89.37	56.40
2013	54.22	61.86	48.55	54.91	60.91	50.49	63.77	81.82	51.71
2014	53.37	60.41	48.17	54.75	60.46	50.61	60.49	75.19	50.82
2015	52.02	59.01	46.77	52.94	58.32	48.91	60.27	76.34	49.75
2016	51.26	58.22	45.99	52.07	57.35	48.11	58.95	74.98	47.64

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 15.6  
Cancer of the Lung and Bronchus (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	61.58	82.34	46.28	61.97	81.79	47.47	76.65	113.70	50.89
1975-1979	56.22	94.32	28.33	55.60	93.59	28.39	72.01	125.85	30.72
1980	60.65	99.96	32.21	59.42	97.69	32.36	86.62	151.43	38.25
1981	62.03	99.41	35.11	61.53	98.44	35.52	82.31	142.96	37.45
1982	63.29	100.69	36.73	63.05	99.68	37.68	80.37	141.06	35.68
1983	63.45	99.46	37.88	63.03	97.63	39.09	86.62	151.34	39.49
1984	65.49	102.05	39.45	64.33	99.89	39.61	92.93	158.84	44.82
1985	64.61	98.59	40.25	63.97	96.84	40.87	89.56	149.68	46.04
1986	65.77	99.03	42.29	65.14	97.32	42.94	92.94	156.27	48.67
1987	67.90	101.51	44.16	68.08	100.66	45.49	84.76	143.59	43.28
1988	68.06	98.70	46.34	68.26	97.92	47.73	88.24	144.93	48.26
1989	67.56	97.96	46.12	67.57	97.06	47.26	89.04	142.77	51.37
1990	68.08	96.91	47.79	68.23	96.11	48.96	86.78	137.17	52.13
1991	69.19	97.20	49.58	68.96	95.88	50.63	93.13	144.76	57.03
1992	69.46	97.20	49.85	68.92	94.89	51.04	93.99	148.73	56.06
1993	67.75	93.95	49.15	67.80	92.51	50.63	86.36	135.35	52.54
1994	67.17	90.93	50.54	67.28	90.13	51.61	87.16	131.39	56.53
1995	66.85	89.82	50.43	67.09	87.95	52.43	85.87	138.94	50.12
1996	66.46	87.96	51.24	66.78	86.66	52.97	84.57	128.35	55.73
1997	66.62	86.31	52.59	67.19	84.80	54.93	82.27	129.54	50.49
1998	67.55	88.02	52.98	68.00	86.60	55.02	87.52	130.87	58.30
1999	65.83	84.57	52.50	66.28	83.25	54.42	84.56	122.46	58.85
2000	64.14	82.11	51.22	64.65	80.78	53.21	80.71	115.09	57.81
2001	64.15	81.41	51.65	65.04	81.07	53.48	80.63	114.51	57.82
2002	64.06	80.43	52.50	64.79	79.84	54.23	81.48	113.10	60.71
2003	64.76	81.05	53.09	65.51	79.56	55.65	81.20	119.56	55.73
2004	62.24	76.28	52.07	62.79	75.30	53.77	76.16	105.27	57.02
2005	63.03	75.82	53.85	64.01	75.53	55.80	74.69	97.97	59.49
2006	62.30	74.29	53.45	62.82	73.08	55.35	76.75	101.10	59.96
2007	62.09	73.75	53.58	63.12	72.86	56.05	74.13	100.68	56.55
2008	60.37	72.15	51.83	61.12	70.74	54.26	74.96	103.32	56.06
2009	59.98	70.66	52.26	60.66	69.71	54.11	74.22	98.01	58.55
2010	57.71	67.97	50.10	58.81	67.76	52.11	67.03	85.57	54.84
2011	56.22	65.62	49.32	57.23	65.28	51.34	65.67	86.18	52.36
2012	55.20	63.95	48.70	55.65	62.87	50.30	69.33	88.90	56.12
2013	54.02	61.64	48.38	54.73	60.71	50.33	63.40	81.36	51.40
2014	53.08	60.07	47.91	54.45	60.13	50.34	59.97	74.52	50.38
2015	51.58	58.50	46.38	52.50	57.83	48.51	59.54	75.41	49.15
2016	50.24	57.04	45.10	50.98	56.13	47.13	57.41	73.01	46.41

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.



Table 15.7  
Small Cell Cancer of the Lung and Bronchus (Invasive)  
Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	8.45	10.53	6.89	8.97	10.97	7.46	7.98	10.82	5.98
1975-1979	7.77	12.14	4.47	7.97	12.49	4.61	7.57	11.77	4.35
1980	9.11	14.20	5.25	9.34	14.40	5.56	9.99	17.53	4.38
1981	9.74	14.59	6.13	10.03	14.87	6.48	9.28	15.87	4.34
1982	10.44	15.00	7.17	10.81	15.36	7.62	9.69	16.08	4.92
1983	10.39	14.92	7.10	10.78	15.09	7.66	9.23	15.20	4.95
1984	10.71	15.24	7.41	11.07	15.71	7.76	10.41	14.99	6.86
1985	10.47	14.98	7.10	10.80	15.26	7.52	11.12	17.90	6.27
1986	11.22	15.57	7.98	11.57	16.05	8.27	12.26	17.70	8.35
1987	10.67	14.15	8.22	11.18	14.57	8.86	9.68	14.61	6.20
1988	11.38	15.28	8.53	11.91	15.62	9.23	10.49	17.86	5.30
1989	11.26	14.86	8.70	11.71	15.25	9.23	12.07	17.67	8.35
1990	10.67	13.86	8.40	11.28	14.49	9.06	9.35	13.70	6.21
1991	11.31	13.99	9.39	11.71	14.32	9.88	12.34	15.92	10.00
1992	10.51	13.41	8.45	10.97	13.85	8.96	10.22	13.32	8.05
1993	10.03	12.34	8.34	10.48	12.64	8.94	9.43	13.36	6.74
1994	9.77	11.69	8.42	10.24	11.97	9.05	9.95	13.53	7.50
1995	9.87	12.30	8.12	10.37	12.64	8.73	9.50	13.89	6.61
1996	9.72	12.09	7.98	10.28	12.48	8.64	8.80	12.02	6.84
1997	9.53	10.86	8.64	10.11	11.12	9.48	7.86	10.82	6.05
1998	9.29	10.86	8.14	9.86	11.28	8.82	9.50	12.26	7.55
1999	8.82	10.06	7.97	9.33	10.25	8.78	8.25	11.21	6.05
2000	8.80	10.45	7.59	9.28	10.85	8.13	9.59	11.80	8.02
2001	8.37	9.86	7.33	8.91	10.35	7.93	8.57	10.91	6.89
2002	8.29	9.39	7.54	8.98	9.86	8.39	7.21	9.80	5.71
2003	8.22	9.12	7.60	8.73	9.38	8.33	7.93	9.50	6.83
2004	8.12	9.00	7.49	8.52	9.25	8.00	8.64	10.08	7.75
2005	7.59	8.69	6.82	8.22	9.24	7.51	6.63	7.78	5.88
2006	7.69	8.53	7.08	8.25	8.84	7.86	6.83	8.19	5.89
2007	7.68	8.60	7.02	8.33	8.96	7.92	7.10	9.40	5.44
2008	7.09	7.96	6.46	7.58	8.11	7.20	6.38	8.85	4.87
2009	7.13	7.78	6.69	7.60	8.10	7.27	7.51	8.36	6.94
2010	6.81	7.49	6.34	7.46	7.98	7.13	5.89	6.88	5.15
2011	6.27	6.85	5.86	6.77	7.09	6.57	5.28	6.44	4.49
2012	6.46	7.19	5.89	6.94	7.55	6.46	6.64	8.31	5.62
2013	6.35	7.13	5.79	6.89	7.49	6.48	5.45	6.77	4.66
2014	6.02	6.36	5.80	6.55	6.63	6.56	5.84	6.57	5.29
2015	5.92	6.25	5.70	6.41	6.54	6.38	5.77	6.28	5.38
2016	5.48	6.05	5.06	5.78	6.12	5.56	5.67	6.32	5.11

Note: Small Cell Cancer of the Lung and Bronchus includes histologies 8002, 8041-8045.  
Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 15.8  
Non-Small Cell Cancer of the Lung and Bronchus (Invasive)  
Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	42.32	56.50	31.68	42.09	55.50	32.09	55.24	81.92	36.41
1975-1979	34.57	57.32	17.36	33.74	55.99	17.26	48.45	86.22	19.14
1980	39.34	64.32	20.69	38.13	62.16	20.54	59.12	103.14	25.80
1981	40.54	64.79	22.59	40.00	63.85	22.68	54.97	94.67	24.97
1982	41.41	66.26	23.20	40.81	65.02	23.49	55.81	97.81	24.13
1983	41.84	66.20	24.06	41.16	64.37	24.68	60.76	107.14	26.02
1984	43.46	68.00	25.50	42.07	65.55	25.26	67.33	116.65	30.98
1985	43.09	65.84	26.35	42.24	63.87	26.58	63.60	107.17	31.77
1986	43.12	64.55	27.46	42.34	62.64	27.82	64.72	109.68	32.57
1987	45.63	69.47	28.35	45.27	68.19	28.88	60.52	104.01	29.58
1988	45.12	65.80	30.02	45.01	65.07	30.65	59.91	96.94	33.34
1989	44.26	64.40	29.72	43.87	63.33	30.12	61.00	97.84	34.69
1990	44.74	63.59	31.09	44.42	62.64	31.39	59.87	92.31	37.15
1991	44.92	63.76	31.37	44.14	61.90	31.68	64.84	102.15	38.09
1992	45.24	63.85	31.70	44.39	61.44	32.28	64.81	104.87	36.51
1993	43.65	61.01	30.96	43.48	59.80	31.70	56.77	89.94	33.69
1994	43.03	58.55	31.84	42.69	57.33	32.35	58.55	90.39	35.94
1995	42.40	57.07	31.68	42.19	55.56	32.59	58.29	93.15	34.32
1996	41.52	54.46	32.10	41.45	53.39	32.92	54.17	81.30	35.44
1997	41.36	54.53	31.60	41.49	53.38	32.77	53.59	84.62	32.39
1998	42.11	55.41	32.49	42.35	54.44	33.76	54.84	82.92	35.78
1999	40.49	52.60	31.60	40.51	51.57	32.45	54.31	79.49	37.09
2000	38.58	49.69	30.49	38.76	48.89	31.52	48.96	69.38	34.98
2001	46.74	60.00	36.93	47.07	59.35	37.96	60.15	86.62	42.50
2002	46.92	59.21	38.00	46.89	58.28	38.66	62.45	85.95	46.53
2003	47.37	60.04	38.09	47.60	58.54	39.72	61.64	92.40	40.77
2004	45.61	56.51	37.61	45.66	55.23	38.65	56.34	79.61	40.83
2005	46.80	56.21	39.90	46.90	55.36	40.74	58.08	75.00	46.66
2006	46.44	55.84	39.43	46.19	54.17	40.29	60.67	81.89	45.95
2007	46.37	55.34	39.68	46.49	53.97	40.93	58.73	79.68	44.67
2008	45.65	54.65	39.06	45.63	52.95	40.39	59.42	81.28	44.50
2009	44.95	52.97	39.06	45.21	52.01	40.20	56.36	75.21	43.79
2010	43.73	51.80	37.67	44.21	51.45	38.71	50.97	64.37	42.11
2011	42.89	49.98	37.57	43.11	49.15	38.57	52.72	69.92	41.43
2012	41.71	48.39	36.72	41.55	47.11	37.44	54.22	69.11	43.88
2013	40.89	46.46	36.72	40.98	45.28	37.80	49.55	63.90	39.93
2014	40.20	45.19	36.50	40.81	44.77	37.91	46.59	58.22	39.06
2015	38.90	44.28	34.80	39.05	43.33	35.79	47.17	60.46	38.30
2016	38.61	43.40	34.96	38.89	42.40	36.24	44.98	57.36	36.23

Note: Non-Small Cell Cancer of the Lung and Bronchus includes histologies 8003-8004, 8012-8015, 8021-8022, 8030-8035, 8046, 8050-8052, 8070-8076, 8078, 8082-8084, 8090, 8094, 8120, 8123, 8140-8141, 8143-8145, 8147, 8190, 8200-8201, 8211, 8240-8241, 8243-8246, 8249-8255, 8260, 8290, 8310, 8320, 8323, 8333, 8401, 8430, 8440, 8470-8471, 8480-8481, 8490, 8503, 8507, 8525, 8550, 8560, 8562, 8570-8572, 8574-8576.

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 15.9  
Cancer of the Lung and Bronchus (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	51.36	73.61	35.07	51.50	72.92	35.77	58.15	93.43	34.12
1975-1979	45.41	80.14	20.10	44.85	78.97	20.21	53.41	98.19	19.78
1980	49.41	84.71	24.13	48.75	83.27	24.22	59.16	106.67	24.57
1981	49.99	85.16	24.95	49.28	83.52	25.10	60.57	109.71	25.10
1982	51.43	86.79	26.47	50.78	85.18	26.72	62.27	112.55	26.30
1983	52.40	87.04	28.10	51.70	85.40	28.28	63.68	112.76	28.73
1984	53.36	88.22	28.94	52.64	86.24	29.27	65.07	117.98	27.98
1985	54.32	88.54	30.41	53.68	86.69	30.81	65.76	117.50	29.64
1986	55.04	88.95	31.41	54.36	87.03	31.76	66.95	119.18	31.00
1987	56.24	90.05	32.72	55.56	88.09	33.04	68.65	121.77	32.48
1988	56.97	89.87	34.14	56.35	87.86	34.57	69.18	122.15	33.54
1989	57.90	89.77	35.77	57.21	87.57	36.27	71.04	124.72	34.87
1990	58.85	90.56	36.85	58.18	88.40	37.31	72.06	125.17	36.48
1991	58.99	89.88	37.61	58.38	87.76	38.12	71.64	123.58	37.16
1992	58.90	88.01	38.70	58.34	85.98	39.21	71.35	121.06	38.55
1993	59.13	87.60	39.28	58.66	85.52	39.97	71.12	121.98	37.72
1994	58.54	85.69	39.62	58.15	83.78	40.30	70.15	118.63	38.61
1995	58.38	84.37	40.26	58.08	82.62	40.97	69.28	116.08	38.84
1996	57.91	82.82	40.41	57.69	81.15	41.22	68.30	113.18	39.08
1997	57.51	81.33	40.82	57.31	79.83	41.52	67.89	110.21	40.53
1998	57.08	79.89	40.98	56.93	78.47	41.69	66.86	107.40	40.67
1999	55.42	76.97	40.15	55.31	75.67	40.86	65.00	103.61	40.00
2000	55.85	76.48	41.12	55.99	75.41	42.08	63.77	100.87	39.64
2001	55.32	75.32	41.01	55.55	74.34	42.05	62.54	99.32	38.80
2002	55.00	73.67	41.60	55.31	72.89	42.64	62.05	95.59	40.21
2003	54.19	72.03	41.29	54.52	71.32	42.30	60.92	92.96	40.25
2004	53.37	70.43	40.96	53.71	69.74	41.99	59.79	90.41	39.95
2005	52.85	69.49	40.71	53.32	69.09	41.70	58.52	86.96	40.12
2006	51.73	67.39	40.26	52.27	67.05	41.36	56.73	83.89	39.06
2007	50.71	65.17	40.10	51.28	64.76	41.30	55.38	82.19	38.13
2008	49.59	63.73	39.13	50.28	63.51	40.40	53.13	78.20	36.88
2009	48.41	61.54	38.63	49.18	61.41	39.97	51.56	75.49	35.90
2010	47.42	60.05	37.94	48.11	59.92	39.17	51.14	73.52	36.27
2011	46.00	57.87	37.01	46.72	57.85	38.20	49.31	70.02	35.44
2012	44.94	56.21	36.42	45.65	56.12	37.64	48.34	68.86	34.73
2013	43.44	53.95	35.46	44.14	53.92	36.64	46.96	66.00	34.11
2014	42.20	51.95	34.72	43.00	52.05	35.99	44.71	62.49	32.78
2015	40.63	49.77	33.56	41.51	49.91	34.94	42.19	59.02	30.74
2016	38.47	46.92	31.91	39.29	47.09	33.18	40.19	55.35	29.78

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 16.4  
Melanoma of the Skin (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites		
	Total	Males	Females	Total	Males	Females
1975-1979	8.70	9.44	8.19	9.75	10.56	9.22
1980	10.51	11.80	9.63	12.03	13.41	11.11
1981	11.08	12.07	10.45	12.59	13.57	12.03
1982	11.19	12.50	10.29	12.84	14.22	11.91
1983	11.08	12.67	10.01	12.64	14.40	11.49
1984	11.41	12.91	10.44	13.11	14.82	12.04
1985	12.78	15.16	11.16	14.58	17.31	12.77
1986	13.32	15.67	11.63	15.27	17.92	13.41
1987	13.67	15.94	12.15	15.67	18.19	14.02
1988	12.89	14.97	11.48	14.99	17.40	13.41
1989	13.75	16.39	11.93	15.97	18.99	13.92
1990	13.87	16.68	11.87	16.20	19.35	13.99
1991	14.63	17.60	12.55	17.15	20.51	14.81
1992	14.77	18.31	12.21	17.31	21.38	14.40
1993	14.64	18.22	12.06	17.13	21.19	14.22
1994	15.67	19.85	12.62	18.47	23.33	14.94
1995	16.51	20.34	13.84	19.46	23.65	16.60
1996	17.39	21.75	14.24	20.63	25.52	17.12
1997	17.77	21.75	14.89	21.08	25.40	18.02
1998	17.95	22.16	15.02	21.53	26.31	18.26
1999	18.36	22.96	15.15	22.05	27.15	18.50
2000	19.01	24.00	15.52	22.97	28.54	19.13
2001	19.74	24.62	16.33	24.02	29.47	20.24
2002	19.37	24.05	16.15	23.49	28.67	20.00
2003	19.59	24.28	16.27	23.95	29.11	20.36
2004	20.71	25.57	17.36	25.40	30.94	21.60
2005	22.50	28.22	18.47	27.85	34.29	23.32
2006	22.16	27.77	18.17	27.34	33.55	22.92
2007	21.87	27.68	17.84	27.01	33.49	22.56
2008	23.28	29.42	18.95	28.88	35.81	24.01
2009	23.23	29.56	18.72	28.73	35.94	23.55
2010	24.02	30.19	19.65	29.75	36.57	24.95
2011	23.08	29.32	18.65	28.72	35.74	23.71
2012	23.18	29.85	18.35	28.90	36.43	23.42
2013	24.38	31.14	19.42	30.36	37.86	24.87
2014	25.63	32.45	20.63	32.28	39.87	26.73
2015	26.16	32.48	21.57	33.17	40.26	27.97
2016	25.83	32.52	20.89	32.52	40.02	26.97

Note: Delay-adjusted melanoma of the skin rates cannot be calculated for the SEER 9 Black population due to low case counts.

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

<sup>a</sup>

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Table 16.5  
Melanoma of the Skin (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	18.01	22.51	14.94	21.43	26.51	18.03	1.00	1.15	0.91
1975-1979	8.70	9.44	8.19	9.75	10.56	9.22	1.12	1.16	1.11
1980	10.51	11.80	9.63	12.03	13.41	11.11	-	-	-
1981	11.08	12.07	10.45	12.59	13.57	12.03	1.35	-	-
1982	11.19	12.50	10.29	12.84	14.22	11.91	-	-	-
1983	11.08	12.67	10.01	12.64	14.40	11.49	-	-	-
1984	11.41	12.91	10.44	13.11	14.82	12.04	-	-	-
1985	12.78	15.16	11.16	14.58	17.31	12.77	-	-	-
1986	13.32	15.67	11.63	15.27	17.92	13.41	-	-	-
1987	13.67	15.94	12.15	15.67	18.19	14.02	1.30	-	-
1988	12.89	14.97	11.48	14.99	17.40	13.41	1.12	-	-
1989	13.75	16.39	11.93	15.97	18.99	13.92	1.13	-	-
1990	13.87	16.68	11.87	16.20	19.35	13.99	1.22	-	-
1991	14.63	17.60	12.55	17.15	20.51	14.81	1.10	-	-
1992	14.77	18.31	12.21	17.31	21.38	14.40	-	-	-
1993	14.64	18.22	12.06	17.13	21.19	14.22	-	-	-
1994	15.67	19.85	12.62	18.47	23.33	14.94	1.03	-	-
1995	16.51	20.34	13.84	19.46	23.65	16.60	1.68	3.19	-
1996	17.39	21.75	14.24	20.63	25.52	17.12	1.11	-	-
1997	17.77	21.75	14.89	21.08	25.40	18.02	1.10	-	-
1998	17.95	22.16	15.02	21.53	26.31	18.26	1.19	-	-
1999	18.36	22.96	15.15	22.05	27.15	18.50	1.14	-	-
2000	19.01	24.00	15.52	22.97	28.54	19.13	0.92	-	-
2001	19.74	24.62	16.33	24.02	29.47	20.24	0.76	-	-
2002	19.37	24.05	16.15	23.49	28.67	20.00	1.11	-	-
2003	19.59	24.28	16.27	23.95	29.11	20.36	0.84	-	-
2004	20.71	25.57	17.36	25.40	30.94	21.60	0.85	-	-
2005	22.50	28.22	18.47	27.85	34.29	23.32	1.07	-	1.03
2006	22.16	27.77	18.17	27.34	33.55	22.92	0.98	-	-
2007	21.87	27.68	17.84	27.01	33.49	22.56	1.22	-	1.20
2008	23.25	29.39	18.93	28.82	35.74	23.96	1.22	1.33	-
2009	23.17	29.49	18.67	28.62	35.80	23.46	1.15	1.11	1.11
2010	23.94	30.09	19.58	29.57	36.35	24.80	1.07	-	0.97
2011	22.98	29.18	18.56	28.50	35.47	23.53	1.07	-	1.13
2012	23.06	29.69	18.24	28.63	36.09	23.20	0.82	-	-
2013	24.21	30.94	19.29	30.02	37.44	24.59	0.87	-	-
2014	25.40	32.16	20.45	31.81	39.28	26.34	1.00	1.16	0.91
2015	25.86	32.10	21.31	32.53	39.48	27.44	0.94	-	0.91
2016	25.38	31.96	20.52	31.59	38.87	26.20	0.80	-	-

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 16.6  
Melanoma of the Skin (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	2.61	3.77	1.75	2.95	4.24	1.98	0.46	0.52	0.42
1975-1979	2.26	2.92	1.74	2.48	3.19	1.91	0.52	0.65	0.43
1980	2.34	3.10	1.74	2.57	3.41	1.90	0.54	0.55	0.56
1981	2.43	3.13	1.88	2.68	3.45	2.07	0.58	0.56	0.57
1982	2.46	3.31	1.81	2.71	3.64	1.99	0.52	0.56	0.49
1983	2.48	3.29	1.85	2.74	3.63	2.04	0.50	0.63	0.40
1984	2.53	3.42	1.85	2.80	3.79	2.03	0.51	0.45	0.54
1985	2.56	3.46	1.86	2.83	3.82	2.06	0.53	0.58	0.49
1986	2.59	3.55	1.88	2.88	3.92	2.09	0.47	0.70	0.31
1987	2.65	3.73	1.83	2.93	4.13	2.02	0.55	0.57	0.54
1988	2.65	3.67	1.90	2.95	4.07	2.13	0.45	0.53	0.40
1989	2.69	3.74	1.89	2.99	4.15	2.10	0.55	0.57	0.53
1990	2.75	3.80	1.97	3.06	4.21	2.20	0.52	0.65	0.45
1991	2.71	3.89	1.82	3.01	4.31	2.02	0.59	0.65	0.54
1992	2.71	3.85	1.85	3.01	4.27	2.06	0.51	0.57	0.44
1993	2.71	3.86	1.86	3.03	4.31	2.06	0.53	0.42	0.59
1994	2.66	3.82	1.81	2.98	4.26	2.03	0.45	0.44	0.43
1995	2.70	3.89	1.81	3.03	4.35	2.02	0.46	0.51	0.42
1996	2.80	4.04	1.90	3.14	4.50	2.14	0.44	0.51	0.38
1997	2.73	3.94	1.84	3.06	4.41	2.05	0.56	0.49	0.58
1998	2.75	4.09	1.77	3.10	4.59	1.98	0.51	0.45	0.54
1999	2.63	3.81	1.74	2.97	4.27	1.98	0.40	0.52	0.33
2000	2.66	3.82	1.81	3.00	4.28	2.04	0.54	0.59	0.50
2001	2.66	3.89	1.75	3.02	4.38	1.99	0.42	0.35	0.45
2002	2.61	3.79	1.73	2.96	4.25	1.97	0.39	0.50	0.32
2003	2.67	3.90	1.75	3.03	4.40	1.98	0.45	0.43	0.45
2004	2.67	3.97	1.71	3.05	4.48	1.95	0.45	0.56	0.39
2005	2.76	4.03	1.81	3.13	4.54	2.07	0.45	0.49	0.41
2006	2.74	4.10	1.73	3.12	4.63	1.98	0.45	0.62	0.36
2007	2.68	4.01	1.69	3.06	4.54	1.93	0.47	0.53	0.45
2008	2.69	4.05	1.65	3.08	4.61	1.90	0.39	0.44	0.35
2009	2.81	4.20	1.78	3.24	4.77	2.06	0.43	0.54	0.35
2010	2.74	4.10	1.71	3.15	4.67	1.96	0.42	0.49	0.38
2011	2.69	4.04	1.67	3.11	4.61	1.93	0.41	0.42	0.41
2012	2.66	3.95	1.68	3.07	4.52	1.95	0.39	0.44	0.34
2013	2.66	4.01	1.63	3.09	4.60	1.91	0.40	0.51	0.31
2014	2.57	3.85	1.58	2.99	4.43	1.84	0.39	0.43	0.37
2015	2.41	3.56	1.52	2.81	4.10	1.78	0.35	0.51	0.24
2016	2.17	3.25	1.34	2.54	3.76	1.58	0.27	0.31	0.24

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 17.2  
MesotheliomaAge-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	0.98	1.83	0.39	1.08	2.00	0.42	0.51	0.92	0.25
1975-1979	0.69	1.21	0.30	0.71	1.28	0.31	0.39	0.49	-
1980	0.98	1.83	0.35	1.05	1.97	0.39	-	-	-
1981	0.75	1.42	0.27	0.80	1.50	0.29	-	-	-
1982	0.83	1.42	0.38	0.90	1.53	0.42	-	-	-
1983	1.05	1.86	0.49	1.09	1.95	0.51	-	-	-
1984	1.06	2.04	0.36	1.15	2.24	0.37	-	-	-
1985	0.92	1.67	0.37	0.97	1.73	0.39	-	-	-
1986	0.94	1.67	0.43	1.01	1.79	0.49	-	-	-
1987	0.97	1.73	0.43	1.03	1.82	0.47	-	-	-
1988	0.98	1.85	0.39	1.05	1.98	0.41	-	-	-
1989	1.13	2.21	0.37	1.20	2.36	0.39	-	-	-
1990	1.15	2.14	0.46	1.24	2.31	0.50	-	-	-
1991	1.12	2.11	0.42	1.18	2.21	0.46	-	-	-
1992	1.23	2.48	0.39	1.33	2.73	0.42	-	-	-
1993	1.06	2.04	0.38	1.14	2.24	0.37	-	-	-
1994	1.16	2.17	0.42	1.24	2.32	0.45	1.06	-	-
1995	1.16	2.17	0.46	1.23	2.30	0.48	-	-	-
1996	1.15	2.14	0.45	1.27	2.38	0.50	-	-	-
1997	1.01	1.92	0.37	1.06	2.06	0.35	0.92	-	-
1998	1.08	2.06	0.40	1.16	2.19	0.46	-	-	-
1999	1.12	2.17	0.38	1.20	2.30	0.40	-	-	-
2000	1.08	2.11	0.34	1.21	2.36	0.38	-	-	-
2001	1.06	1.98	0.41	1.18	2.19	0.45	-	-	-
2002	1.04	1.96	0.38	1.17	2.19	0.43	-	-	-
2003	0.96	1.74	0.40	1.06	1.91	0.44	-	-	-
2004	1.11	2.05	0.45	1.22	2.26	0.49	-	-	-
2005	1.05	1.95	0.43	1.19	2.18	0.50	-	-	-
2006	0.97	1.65	0.46	1.07	1.84	0.48	-	-	-
2007	0.98	1.77	0.43	1.11	2.00	0.48	-	-	-
2008	0.96	1.81	0.35	1.07	2.00	0.38	-	-	-
2009	0.99	1.83	0.39	1.16	2.12	0.46	-	-	-
2010	1.00	1.83	0.41	1.11	2.06	0.42	-	-	-
2011	0.97	1.72	0.40	1.10	1.92	0.47	-	-	-
2012	0.95	1.68	0.41	1.11	1.90	0.52	-	-	-
2013	0.83	1.50	0.35	0.94	1.65	0.42	-	-	-
2014	0.93	1.61	0.43	1.02	1.72	0.49	-	-	-
2015	0.90	1.70	0.32	1.03	1.95	0.34	-	-	-
2016	0.86	1.53	0.37	0.97	1.70	0.41	-	-	-

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 18.4

## Myeloma

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	4.93	6.16	4.09	4.63	5.82	3.84	9.77	11.94	8.26
1980	4.79	5.77	4.12	4.43	5.44	3.75	9.89	10.83	9.05
1981	5.03	6.02	4.33	4.62	5.46	4.00	11.01	15.23	8.19
1982	5.29	6.28	4.67	4.89	5.87	4.32	11.57	13.93	9.72
1983	5.31	6.94	4.22	4.74	6.30	3.72	13.78	16.35	11.92
1984	5.41	6.97	4.33	5.05	6.44	4.10	10.79	15.23	7.71
1985	5.21	6.33	4.36	4.94	5.96	4.18	9.45	12.58	7.24
1986	5.34	6.31	4.66	4.89	6.02	4.13	11.01	11.57	10.42
1987	5.93	7.37	5.02	5.66	7.18	4.71	11.13	13.48	9.69
1988	5.33	6.56	4.51	5.03	6.37	4.18	10.81	12.06	9.81
1989	5.44	6.72	4.50	5.10	6.34	4.18	10.78	13.57	8.94
1990	5.67	7.26	4.59	5.26	6.95	4.10	12.12	14.62	10.57
1991	6.05	7.69	4.86	5.58	7.20	4.41	12.78	15.91	10.64
1992	5.96	7.31	5.06	5.63	7.01	4.75	11.57	13.29	10.31
1993	5.60	7.34	4.33	5.14	6.83	3.95	12.79	15.69	10.61
1994	5.74	6.80	5.06	5.21	6.32	4.47	12.92	15.35	12.01
1995	5.76	7.25	4.74	5.34	6.80	4.34	12.31	15.24	10.46
1996	5.84	7.20	4.81	5.43	6.89	4.29	12.73	13.51	12.13
1997	6.15	7.40	5.29	5.74	7.08	4.79	12.75	14.42	12.02
1998	5.99	7.37	4.95	5.62	7.14	4.46	12.15	13.44	11.34
1999	5.65	7.12	4.58	5.18	6.61	4.13	12.19	15.46	10.15
2000	6.16	7.67	5.04	5.87	7.67	4.52	11.16	10.95	11.07
2001	5.96	7.38	4.87	5.52	6.95	4.41	12.44	15.18	10.79
2002	6.08	7.92	4.71	5.72	7.68	4.26	11.27	14.09	9.48
2003	5.94	7.40	4.86	5.66	7.19	4.50	11.22	14.29	9.26
2004	6.00	7.54	4.85	5.51	7.06	4.35	13.03	16.20	10.83
2005	6.27	7.89	5.07	5.85	7.58	4.53	12.84	14.73	11.67
2006	6.03	7.27	5.10	5.62	6.96	4.56	13.30	15.00	12.24
2007	6.14	8.03	4.68	5.73	7.78	4.11	12.24	14.86	10.44
2008	6.51	8.05	5.37	5.94	7.50	4.77	14.70	18.15	12.74
2009	6.74	8.53	5.35	6.12	7.92	4.72	14.60	17.32	12.67
2010	6.95	8.72	5.56	6.39	8.09	5.02	14.94	19.44	11.96
2011	7.24	8.86	5.94	6.63	8.31	5.26	15.09	17.28	13.70
2012	7.02	8.98	5.48	6.36	8.28	4.80	15.50	19.83	12.57
2013	7.27	9.21	5.73	6.66	8.77	4.93	14.72	17.76	12.72
2014	7.12	9.00	5.61	6.51	8.47	4.89	14.53	16.87	12.94
2015	7.60	9.39	6.20	6.99	8.83	5.53	14.56	16.74	12.92
2016	7.57	9.37	6.12	6.95	8.84	5.43	15.82	18.28	13.84

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 18.5  
MyelomaAge-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	6.00	7.50	4.90	5.53	7.07	4.40	12.52	14.98	10.87
1975-1979	4.93	6.16	4.09	4.63	5.82	3.84	9.77	11.94	8.26
1980	4.79	5.77	4.12	4.43	5.44	3.75	9.89	10.83	9.05
1981	5.03	6.02	4.33	4.62	5.46	4.00	11.01	15.23	8.19
1982	5.29	6.28	4.67	4.89	5.87	4.32	11.57	13.93	9.72
1983	5.31	6.94	4.22	4.74	6.30	3.72	13.78	16.35	11.92
1984	5.41	6.97	4.33	5.05	6.44	4.10	10.79	15.23	7.71
1985	5.21	6.33	4.36	4.94	5.96	4.18	9.45	12.58	7.24
1986	5.34	6.31	4.66	4.89	6.02	4.13	11.01	11.57	10.42
1987	5.93	7.37	5.02	5.66	7.18	4.71	11.13	13.48	9.69
1988	5.33	6.56	4.51	5.03	6.37	4.18	10.81	12.06	9.81
1989	5.44	6.72	4.50	5.10	6.34	4.18	10.78	13.57	8.94
1990	5.67	7.26	4.59	5.26	6.95	4.10	12.12	14.62	10.57
1991	6.05	7.69	4.86	5.58	7.20	4.41	12.78	15.91	10.64
1992	5.96	7.31	5.06	5.63	7.01	4.75	11.57	13.29	10.31
1993	5.60	7.34	4.33	5.14	6.83	3.95	12.79	15.69	10.61
1994	5.74	6.80	5.06	5.21	6.32	4.47	12.92	15.35	12.01
1995	5.76	7.25	4.74	5.34	6.80	4.34	12.31	15.24	10.46
1996	5.84	7.20	4.81	5.43	6.89	4.29	12.73	13.51	12.13
1997	6.15	7.40	5.29	5.74	7.08	4.79	12.75	14.42	12.02
1998	5.99	7.37	4.95	5.62	7.14	4.46	12.15	13.44	11.34
1999	5.65	7.12	4.58	5.18	6.61	4.13	12.19	15.46	10.15
2000	6.16	7.67	5.04	5.87	7.67	4.52	11.16	10.95	11.07
2001	5.96	7.38	4.87	5.52	6.95	4.41	12.44	15.18	10.79
2002	6.08	7.92	4.71	5.72	7.68	4.26	11.27	14.09	9.48
2003	5.94	7.40	4.86	5.66	7.19	4.50	11.22	14.29	9.26
2004	6.00	7.54	4.85	5.51	7.06	4.35	13.03	16.20	10.83
2005	6.27	7.89	5.07	5.85	7.58	4.53	12.84	14.73	11.67
2006	6.03	7.27	5.10	5.62	6.96	4.56	13.30	15.00	12.24
2007	6.14	8.03	4.68	5.73	7.78	4.11	12.24	14.86	10.44
2008	6.47	8.01	5.34	5.91	7.46	4.74	14.59	18.01	12.66
2009	6.66	8.44	5.29	6.05	7.83	4.67	14.38	17.07	12.47
2010	6.84	8.59	5.47	6.28	7.97	4.94	14.60	18.99	11.69
2011	7.09	8.68	5.82	6.49	8.13	5.14	14.63	16.75	13.29
2012	6.84	8.74	5.33	6.19	8.06	4.68	14.92	19.10	12.10
2013	7.03	8.92	5.54	6.44	8.47	4.77	14.03	16.93	12.14
2014	6.82	8.61	5.38	6.23	8.10	4.68	13.70	15.89	12.22
2015	7.17	8.86	5.84	6.59	8.32	5.20	13.53	15.52	12.02
2016	6.98	8.65	5.65	6.40	8.14	5.00	14.26	16.50	12.47

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 18.6  
MyelomaAge-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	3.55	4.45	2.93	3.28	4.17	2.67	6.72	8.23	5.76
1975-1979	3.12	3.92	2.59	2.91	3.66	2.40	5.61	7.01	4.66
1980	3.27	4.12	2.72	3.02	3.83	2.49	6.10	7.37	5.23
1981	3.29	4.05	2.79	3.01	3.70	2.54	6.57	8.16	5.50
1982	3.38	4.17	2.85	3.10	3.81	2.62	6.68	8.56	5.45
1983	3.44	4.34	2.87	3.15	3.97	2.63	6.82	8.73	5.58
1984	3.47	4.26	2.95	3.20	3.92	2.73	6.64	8.38	5.47
1985	3.58	4.46	3.02	3.29	4.11	2.78	6.90	8.57	5.82
1986	3.61	4.51	3.03	3.29	4.12	2.76	7.16	9.10	5.95
1987	3.61	4.57	2.97	3.32	4.21	2.72	7.06	9.18	5.71
1988	3.63	4.61	3.02	3.36	4.35	2.73	6.89	8.14	6.12
1989	3.70	4.64	3.10	3.42	4.30	2.85	7.08	8.91	5.92
1990	3.80	4.83	3.13	3.49	4.45	2.87	7.32	9.64	5.92
1991	3.87	4.83	3.26	3.54	4.46	2.95	7.77	9.59	6.64
1992	3.80	4.72	3.19	3.48	4.36	2.90	7.45	9.33	6.32
1993	3.96	4.89	3.35	3.64	4.56	3.04	7.82	9.32	6.88
1994	3.97	5.03	3.26	3.67	4.69	2.99	7.68	9.68	6.46
1995	3.98	4.94	3.36	3.66	4.61	3.02	7.79	9.41	6.90
1996	3.91	4.94	3.25	3.59	4.60	2.94	7.70	9.63	6.54
1997	3.90	4.93	3.22	3.60	4.61	2.93	7.49	9.24	6.45
1998	3.83	4.76	3.21	3.50	4.41	2.88	7.75	9.49	6.77
1999	3.84	4.72	3.24	3.52	4.41	2.91	7.45	8.84	6.64
2000	3.83	4.66	3.27	3.53	4.38	2.96	7.51	8.76	6.73
2001	3.80	4.69	3.18	3.53	4.41	2.90	7.23	8.74	6.29
2002	3.81	4.78	3.15	3.57	4.56	2.87	6.89	8.33	6.03
2003	3.72	4.61	3.09	3.45	4.36	2.80	7.14	8.44	6.32
2004	3.58	4.43	2.98	3.32	4.16	2.71	6.88	8.31	6.04
2005	3.58	4.51	2.91	3.34	4.26	2.67	6.48	8.06	5.50
2006	3.50	4.38	2.87	3.25	4.11	2.63	6.54	8.28	5.46
2007	3.49	4.42	2.83	3.23	4.18	2.55	6.58	7.85	5.84
2008	3.33	4.29	2.62	3.08	4.03	2.38	6.34	7.97	5.30
2009	3.29	4.23	2.61	3.08	3.99	2.40	5.96	7.61	4.88
2010	3.32	4.16	2.70	3.06	3.89	2.45	6.37	7.80	5.48
2011	3.38	4.27	2.72	3.16	4.07	2.48	6.08	7.38	5.25
2012	3.40	4.25	2.77	3.17	4.03	2.51	6.27	7.41	5.54
2013	3.32	4.18	2.67	3.08	3.96	2.40	6.37	7.44	5.70
2014	3.34	4.21	2.68	3.08	3.98	2.40	6.45	7.71	5.62
2015	3.30	4.18	2.63	3.07	3.98	2.37	6.03	7.32	5.23
2016	3.22	4.06	2.58	3.00	3.84	2.35	5.96	7.28	5.10

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
 US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
 Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
 - Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 19.4  
Non-Hodgkin Lymphoma

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	11.60	13.44	10.18	12.09	13.93	10.68	6.96	8.74	5.52
1980	12.62	15.01	10.81	12.98	15.28	11.22	8.70	10.74	7.20
1981	13.58	15.90	11.81	14.06	16.34	12.35	7.42	10.59	4.98
1982	13.39	15.56	11.61	14.02	16.42	12.05	10.27	10.22	10.01
1983	13.99	16.62	11.95	14.63	17.52	12.40	10.28	10.88	9.62
1984	15.19	18.29	12.79	15.97	19.10	13.55	9.46	12.52	6.92
1985	15.51	18.39	13.16	16.28	19.25	13.85	9.95	11.96	8.43
1986	15.90	19.43	13.00	16.83	20.59	13.75	10.66	13.13	8.52
1987	16.74	20.78	13.42	17.70	22.15	14.00	10.35	10.43	9.95
1988	17.26	21.36	14.08	18.22	22.45	14.90	11.58	15.79	8.49
1989	17.36	21.65	13.84	18.36	23.04	14.50	11.59	14.10	9.72
1990	18.51	22.97	14.81	19.34	23.96	15.49	13.92	17.63	11.02
1991	18.81	23.74	14.61	19.70	24.81	15.32	14.03	18.81	10.29
1992	18.62	23.04	14.94	19.56	23.94	15.84	13.68	18.87	9.65
1993	18.85	23.47	15.00	19.65	24.32	15.70	14.23	19.37	9.97
1994	19.95	24.96	15.79	20.67	25.58	16.54	14.48	21.52	8.86
1995	19.99	25.42	15.45	20.70	26.18	16.04	16.76	23.63	11.43
1996	19.42	24.24	15.48	20.27	25.20	16.21	15.54	19.25	12.39
1997	20.00	24.53	16.46	20.90	25.22	17.49	16.40	24.26	10.86
1998	19.62	22.96	16.86	20.61	24.01	17.78	14.49	16.96	12.54
1999	19.97	24.59	16.36	20.95	25.54	17.32	14.41	18.42	11.37
2000	19.81	24.34	16.13	20.99	25.71	17.12	13.93	18.23	10.74
2001	20.02	24.40	16.46	20.82	25.47	17.06	16.05	18.44	13.92
2002	20.23	24.20	17.10	21.34	25.52	17.98	14.48	17.10	12.51
2003	20.78	25.06	17.53	21.91	26.33	18.48	16.37	20.06	13.78
2004	21.40	25.89	17.95	22.35	26.85	18.85	18.60	24.18	14.55
2005	20.88	25.63	17.09	22.02	26.74	18.20	16.73	19.95	14.10
2006	20.52	24.75	17.24	21.78	26.08	18.39	16.39	21.02	12.94
2007	21.26	26.12	17.39	22.55	27.55	18.45	15.83	19.35	13.17
2008	20.97	25.80	17.03	21.85	26.87	17.68	16.94	18.99	15.08
2009	20.97	25.28	17.47	22.04	26.69	18.14	15.40	18.67	12.99
2010	21.51	26.76	17.24	22.50	27.58	18.31	17.81	23.43	13.34
2011	19.96	24.50	16.37	20.93	25.64	17.16	14.72	17.69	12.51
2012	20.49	25.11	16.74	21.47	26.18	17.57	16.82	19.26	14.65
2013	19.93	24.38	16.30	21.01	25.59	17.19	15.86	18.38	13.93
2014	20.47	25.31	16.51	21.72	26.53	17.77	15.45	20.42	11.52
2015	20.37	25.21	16.43	21.61	26.52	17.54	15.50	19.98	12.06
2016	19.84	24.03	16.40	20.78	24.99	17.26	16.86	19.80	14.33

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

<sup>a</sup>

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Table 19.5  
Non-Hodgkin Lymphoma

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	18.46	22.67	15.13	19.25	23.57	15.81	14.14	17.69	11.35
1975-1979	11.60	13.44	10.18	12.09	13.93	10.68	6.96	8.74	5.52
1980	12.62	15.01	10.81	12.98	15.28	11.22	8.70	10.74	7.20
1981	13.58	15.90	11.81	14.06	16.34	12.35	7.42	10.59	4.98
1982	13.39	15.56	11.61	14.02	16.42	12.05	10.27	10.22	10.01
1983	13.99	16.62	11.95	14.63	17.52	12.40	10.28	10.88	9.62
1984	15.19	18.29	12.79	15.97	19.10	13.55	9.46	12.52	6.92
1985	15.51	18.39	13.16	16.28	19.25	13.85	9.95	11.96	8.43
1986	15.90	19.43	13.00	16.83	20.59	13.75	10.66	13.13	8.52
1987	16.74	20.78	13.42	17.70	22.15	14.00	10.35	10.43	9.95
1988	17.26	21.36	14.08	18.22	22.45	14.90	11.58	15.79	8.49
1989	17.36	21.65	13.84	18.36	23.04	14.50	11.59	14.10	9.72
1990	18.51	22.97	14.81	19.34	23.96	15.49	13.92	17.63	11.02
1991	18.81	23.74	14.61	19.70	24.81	15.32	14.03	18.81	10.29
1992	18.62	23.04	14.94	19.56	23.94	15.84	13.68	18.87	9.65
1993	18.85	23.47	15.00	19.65	24.32	15.70	14.23	19.37	9.97
1994	19.95	24.96	15.79	20.67	25.58	16.54	14.48	21.52	8.86
1995	19.99	25.42	15.45	20.70	26.18	16.04	16.76	23.63	11.43
1996	19.42	24.24	15.48	20.27	25.20	16.21	15.54	19.25	12.39
1997	20.00	24.53	16.46	20.90	25.22	17.49	16.40	24.26	10.86
1998	19.62	22.96	16.86	20.61	24.01	17.78	14.49	16.96	12.54
1999	19.97	24.59	16.36	20.95	25.54	17.32	14.41	18.42	11.37
2000	19.81	24.34	16.13	20.99	25.71	17.12	13.93	18.23	10.74
2001	20.02	24.40	16.46	20.82	25.47	17.06	16.05	18.44	13.92
2002	20.23	24.20	17.10	21.34	25.52	17.98	14.48	17.10	12.51
2003	20.78	25.06	17.53	21.91	26.33	18.48	16.37	20.06	13.78
2004	21.40	25.89	17.95	22.35	26.85	18.85	18.60	24.18	14.55
2005	20.88	25.63	17.09	22.02	26.74	18.20	16.73	19.95	14.10
2006	20.52	24.75	17.24	21.78	26.08	18.39	16.39	21.02	12.94
2007	21.26	26.12	17.39	22.55	27.55	18.45	15.83	19.35	13.17
2008	20.93	25.75	17.00	21.80	26.81	17.65	16.89	18.94	15.03
2009	20.89	25.20	17.41	21.95	26.59	18.06	15.31	18.56	12.91
2010	21.41	26.62	17.15	22.37	27.42	18.20	17.67	23.23	13.23
2011	19.82	24.33	16.26	20.76	25.44	17.02	14.55	17.49	12.37
2012	20.31	24.89	16.59	21.25	25.91	17.39	16.58	18.97	14.44
2013	19.73	24.14	16.13	20.76	25.29	16.99	15.58	18.07	13.68
2014	20.20	24.97	16.29	21.38	26.12	17.49	15.12	19.98	11.28
2015	20.03	24.78	16.15	21.18	26.00	17.18	15.10	19.47	11.74
2016	19.36	23.44	16.00	20.18	24.28	16.76	16.25	19.09	13.82

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 19.6  
Non-Hodgkin Lymphoma

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	7.01	8.80	5.70	7.32	9.15	5.96	4.78	6.13	3.80
1975-1979	5.80	7.08	4.84	6.02	7.33	5.03	3.75	4.83	2.92
1980	6.23	7.47	5.29	6.47	7.74	5.52	3.99	5.15	3.12
1981	6.16	7.38	5.27	6.40	7.66	5.47	3.98	5.00	3.25
1982	6.55	7.98	5.49	6.83	8.29	5.74	4.12	5.23	3.29
1983	6.66	8.11	5.58	6.92	8.39	5.85	4.30	5.79	3.23
1984	6.76	8.15	5.75	7.05	8.50	6.01	4.19	5.28	3.39
1985	7.06	8.80	5.80	7.34	9.17	6.02	4.62	5.57	3.87
1986	7.31	8.98	6.05	7.59	9.25	6.33	4.95	6.64	3.70
1987	7.26	8.81	6.10	7.56	9.12	6.38	4.73	6.30	3.62
1988	7.52	9.28	6.24	7.82	9.59	6.53	5.01	6.82	3.72
1989	7.83	9.73	6.43	8.12	10.04	6.71	5.33	7.10	4.07
1990	7.87	9.97	6.34	8.16	10.32	6.58	5.39	7.13	4.17
1991	8.19	10.15	6.74	8.50	10.52	7.00	5.70	7.17	4.61
1992	8.22	10.30	6.69	8.53	10.66	6.96	5.64	7.23	4.45
1993	8.25	10.14	6.86	8.57	10.45	7.17	5.69	7.53	4.40
1994	8.63	10.75	7.10	9.00	11.20	7.41	5.54	6.82	4.56
1995	8.72	10.81	7.16	9.09	11.21	7.49	5.79	7.62	4.45
1996	8.75	10.94	7.14	9.09	11.29	7.46	6.21	8.25	4.74
1997	8.88	11.03	7.25	9.21	11.35	7.57	6.34	8.45	4.87
1998	8.69	10.85	7.10	9.03	11.27	7.38	5.99	7.50	4.89
1999	8.32	10.36	6.85	8.67	10.71	7.18	5.65	7.44	4.41
2000	8.17	10.20	6.70	8.54	10.63	7.01	5.20	6.61	4.17
2001	7.91	9.98	6.42	8.21	10.31	6.68	5.61	7.28	4.47
2002	7.65	9.66	6.19	7.97	10.04	6.44	5.41	6.88	4.41
2003	7.38	9.40	5.92	7.69	9.81	6.13	4.94	5.83	4.27
2004	7.09	8.94	5.73	7.38	9.28	5.96	5.01	6.23	4.13
2005	6.95	8.87	5.56	7.24	9.22	5.79	4.77	6.11	3.81
2006	6.74	8.48	5.44	7.01	8.78	5.66	4.92	6.27	3.93
2007	6.59	8.36	5.26	6.86	8.67	5.49	4.52	5.77	3.62
2008	6.41	8.20	5.09	6.71	8.56	5.33	4.31	5.48	3.45
2009	6.30	8.12	4.93	6.56	8.42	5.13	4.49	6.15	3.41
2010	6.14	7.83	4.85	6.37	8.11	5.04	4.57	5.84	3.64
2011	6.03	7.85	4.64	6.29	8.17	4.83	4.36	5.74	3.40
2012	5.91	7.62	4.61	6.17	7.95	4.80	4.26	5.38	3.48
2013	5.71	7.38	4.44	5.95	7.67	4.62	4.11	5.27	3.33
2014	5.65	7.26	4.43	5.89	7.55	4.60	4.18	5.28	3.42
2015	5.47	7.13	4.18	5.69	7.41	4.34	4.04	5.19	3.21
2016	5.37	6.91	4.17	5.62	7.21	4.36	3.83	4.81	3.11

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 20.5  
Cancer of the Oral Cavity and Pharynx (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	13.33	21.02	7.43	13.21	21.00	7.33	15.51	24.44	8.46
1980	13.34	20.25	7.91	12.98	19.96	7.62	16.82	25.39	9.59
1981	13.58	20.84	7.91	13.41	20.53	7.95	16.60	28.16	7.36
1982	13.34	20.32	7.93	13.08	19.94	7.85	17.06	27.39	8.75
1983	13.28	21.20	7.24	13.25	21.21	7.28	16.13	26.08	8.32
1984	13.47	20.79	7.86	13.00	20.16	7.64	18.91	29.99	10.07
1985	13.33	19.82	8.24	13.28	19.62	8.36	15.98	25.82	8.41
1986	12.47	19.14	7.20	12.36	18.86	7.30	16.18	28.09	6.97
1987	13.21	20.54	7.52	13.11	20.17	7.68	16.81	30.00	6.99
1988	12.14	18.15	7.32	11.79	17.69	7.11	16.54	25.67	9.19
1989	12.13	18.31	7.29	11.85	17.72	7.32	15.75	27.16	7.05
1990	12.67	19.42	7.35	12.40	18.84	7.39	16.05	27.89	6.92
1991	12.16	18.34	7.25	12.08	18.09	7.32	14.56	23.93	7.41
1992	11.97	18.34	6.92	11.82	18.05	6.93	14.85	25.21	6.94
1993	12.42	18.70	7.29	12.20	18.35	7.21	15.64	25.06	8.10
1994	11.72	17.69	6.84	11.41	16.87	6.92	15.74	26.82	7.07
1995	11.54	16.95	7.20	11.52	16.73	7.34	13.58	22.71	6.66
1996	11.78	17.77	6.98	11.47	17.27	6.85	15.12	24.44	7.81
1997	11.51	17.36	6.74	11.52	17.21	6.85	11.58	18.55	6.18
1998	11.24	16.68	6.77	11.24	16.37	6.95	13.20	22.61	6.42
1999	10.59	15.56	6.48	10.48	15.42	6.35	11.95	20.27	5.83
2000	10.76	16.08	6.31	10.67	15.66	6.41	11.75	20.76	4.93
2001	10.85	15.56	6.92	10.92	15.62	6.95	12.11	19.03	7.01
2002	11.13	16.34	6.74	11.31	16.58	6.80	11.15	16.95	6.55
2003	10.53	15.65	6.19	10.49	15.64	6.04	11.89	17.22	7.66
2004	10.85	16.15	6.29	11.09	16.52	6.31	10.26	16.18	5.89
2005	10.74	15.67	6.53	10.89	16.05	6.40	11.19	16.73	7.06
2006	10.80	15.87	6.43	11.05	16.10	6.61	10.14	16.70	5.24
2007	10.84	16.11	6.28	11.13	16.55	6.30	10.17	15.78	5.89
2008	11.04	16.41	6.43	11.49	16.95	6.66	8.88	14.02	4.97
2009	11.08	16.43	6.40	11.33	16.78	6.46	10.69	16.27	6.39
2010	10.99	16.36	6.25	11.45	16.94	6.46	8.80	13.29	5.25
2011	11.35	16.85	6.56	11.99	17.76	6.81	9.11	14.35	5.11
2012	11.25	16.42	6.72	11.81	17.20	6.93	8.63	14.27	4.26
2013	11.57	17.35	6.54	12.11	18.20	6.68	9.65	14.99	5.55
2014	11.55	17.64	6.19	12.12	18.42	6.40	9.37	15.48	4.73
2015	11.93	17.66	6.93	12.63	18.82	7.05	9.02	14.05	5.39
2016	11.98	17.68	6.95	12.64	18.66	7.12	8.64	13.26	5.16

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 20.6  
Cancer of the Oral Cavity and Pharynx (Invasive)  
Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	11.83	17.78	6.91	11.96	17.94	6.97	12.18	19.61	6.45
1975-1979	13.33	21.02	7.43	13.21	21.00	7.33	15.51	24.44	8.46
1980	13.34	20.25	7.91	12.98	19.96	7.62	16.82	25.39	9.59
1981	13.58	20.84	7.91	13.41	20.53	7.95	16.60	28.16	7.36
1982	13.34	20.32	7.93	13.08	19.94	7.85	17.06	27.39	8.75
1983	13.28	21.20	7.24	13.25	21.21	7.28	16.13	26.08	8.32
1984	13.47	20.79	7.86	13.00	20.16	7.64	18.91	29.99	10.07
1985	13.33	19.82	8.24	13.28	19.62	8.36	15.98	25.82	8.41
1986	12.47	19.14	7.20	12.36	18.86	7.30	16.18	28.09	6.97
1987	13.21	20.54	7.52	13.11	20.17	7.68	16.81	30.00	6.99
1988	12.14	18.15	7.32	11.79	17.69	7.11	16.54	25.67	9.19
1989	12.13	18.31	7.29	11.85	17.72	7.32	15.75	27.16	7.05
1990	12.67	19.42	7.35	12.40	18.84	7.39	16.05	27.89	6.92
1991	12.16	18.34	7.25	12.08	18.09	7.32	14.56	23.93	7.41
1992	11.97	18.34	6.92	11.82	18.05	6.93	14.85	25.21	6.94
1993	12.42	18.70	7.29	12.20	18.35	7.21	15.64	25.06	8.10
1994	11.72	17.69	6.84	11.41	16.87	6.92	15.74	26.82	7.07
1995	11.54	16.95	7.20	11.52	16.73	7.34	13.58	22.71	6.66
1996	11.78	17.77	6.98	11.47	17.27	6.85	15.12	24.44	7.81
1997	11.51	17.36	6.74	11.52	17.21	6.85	11.58	18.55	6.18
1998	11.24	16.68	6.77	11.24	16.37	6.95	13.20	22.61	6.42
1999	10.59	15.56	6.48	10.48	15.42	6.35	11.95	20.27	5.83
2000	10.76	16.08	6.31	10.67	15.66	6.41	11.75	20.76	4.93
2001	10.85	15.56	6.92	10.92	15.62	6.95	12.11	19.03	7.01
2002	11.13	16.34	6.74	11.31	16.58	6.80	11.15	16.95	6.55
2003	10.53	15.65	6.19	10.49	15.64	6.04	11.89	17.22	7.66
2004	10.85	16.15	6.29	11.09	16.52	6.31	10.26	16.18	5.89
2005	10.74	15.67	6.53	10.89	16.05	6.40	11.19	16.73	7.06
2006	10.80	15.87	6.43	11.05	16.10	6.61	10.14	16.70	5.24
2007	10.84	16.11	6.28	11.13	16.55	6.30	10.17	15.78	5.89
2008	11.03	16.39	6.42	11.47	16.93	6.65	8.86	14.00	4.96
2009	11.06	16.40	6.38	11.30	16.73	6.44	10.66	16.22	6.36
2010	10.96	16.31	6.24	11.41	16.88	6.44	8.75	13.22	5.22
2011	11.31	16.79	6.53	11.93	17.67	6.77	9.05	14.26	5.07
2012	11.20	16.34	6.69	11.74	17.09	6.89	8.55	14.15	4.23
2013	11.50	17.26	6.51	12.02	18.07	6.63	9.56	14.84	5.49
2014	11.46	17.50	6.14	12.00	18.23	6.33	9.25	15.25	4.68
2015	11.81	17.48	6.86	12.45	18.55	6.95	8.86	13.80	5.30
2016	11.76	17.36	6.82	12.33	18.21	6.94	8.40	12.90	5.01

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 20.7  
Cancer of the Oral Cavity and Pharynx (Invasive)  
Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	3.07	4.75	1.73	2.93	4.48	1.71	4.33	7.54	1.95
1975-1979	4.25	6.87	2.30	4.05	6.50	2.25	6.18	10.71	2.69
1980	4.16	6.69	2.27	3.87	6.12	2.22	6.97	12.48	2.76
1981	4.05	6.46	2.24	3.78	5.96	2.17	6.52	11.36	2.84
1982	4.02	6.46	2.22	3.74	5.96	2.13	6.62	11.46	2.94
1983	3.94	6.27	2.20	3.64	5.73	2.10	6.65	11.83	2.76
1984	3.88	6.18	2.17	3.61	5.64	2.12	6.37	11.70	2.38
1985	3.75	5.93	2.11	3.49	5.44	2.05	6.23	11.03	2.62
1986	3.72	5.80	2.16	3.42	5.27	2.07	6.51	11.35	2.93
1987	3.53	5.46	2.05	3.29	5.01	2.00	5.70	9.95	2.54
1988	3.59	5.63	2.05	3.33	5.14	1.98	5.99	10.67	2.55
1989	3.50	5.34	2.07	3.23	4.84	2.00	5.92	10.44	2.59
1990	3.58	5.61	2.03	3.29	5.07	1.96	6.12	11.05	2.52
1991	3.47	5.34	2.03	3.21	4.87	1.95	5.84	10.06	2.70
1992	3.34	5.15	1.94	3.09	4.66	1.89	5.56	9.97	2.31
1993	3.34	5.19	1.90	3.07	4.68	1.83	5.68	10.09	2.44
1994	3.15	4.84	1.83	2.92	4.41	1.77	5.33	9.26	2.39
1995	3.16	4.87	1.84	2.91	4.42	1.75	5.37	9.28	2.54
1996	3.03	4.64	1.75	2.82	4.24	1.71	4.86	8.69	2.07
1997	2.98	4.53	1.76	2.79	4.17	1.70	4.68	8.10	2.19
1998	2.96	4.53	1.72	2.80	4.20	1.68	4.53	7.91	2.09
1999	2.73	4.15	1.60	2.55	3.80	1.54	4.37	7.49	2.12
2000	2.69	4.06	1.58	2.52	3.72	1.55	4.12	7.30	1.76
2001	2.72	4.15	1.56	2.58	3.87	1.53	3.86	6.65	1.80
2002	2.68	4.08	1.55	2.57	3.87	1.51	3.65	6.26	1.73
2003	2.64	4.07	1.48	2.51	3.80	1.45	3.83	6.86	1.65
2004	2.61	3.99	1.48	2.49	3.72	1.46	3.81	6.84	1.62
2005	2.53	3.84	1.44	2.42	3.59	1.44	3.49	6.42	1.37
2006	2.48	3.78	1.40	2.39	3.60	1.38	3.22	5.57	1.49
2007	2.52	3.85	1.43	2.45	3.70	1.41	3.27	5.60	1.59
2008	2.45	3.74	1.39	2.40	3.61	1.38	2.98	5.04	1.47
2009	2.37	3.64	1.31	2.33	3.53	1.32	2.80	4.97	1.22
2010	2.47	3.75	1.40	2.45	3.68	1.40	2.79	4.76	1.36
2011	2.47	3.86	1.31	2.42	3.74	1.30	3.06	5.36	1.37
2012	2.49	3.86	1.35	2.46	3.77	1.35	2.88	5.04	1.32
2013	2.41	3.72	1.30	2.39	3.66	1.29	2.81	4.77	1.37
2014	2.51	3.97	1.28	2.50	3.91	1.30	2.79	4.87	1.28
2015	2.53	3.92	1.36	2.53	3.91	1.35	2.57	4.12	1.39
2016	2.59	3.98	1.41	2.60	3.96	1.43	2.63	4.50	1.24

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.



Table 21.4  
Cancer of the Ovary (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Females			White Females			Black Females		
	All	<65	65+	All	<65	65+	All	<65	65+
1975-1979	15.71	11.11	47.54	16.33	11.56	49.31	11.25	7.72	35.59
1980	15.46	10.65	48.68	16.21	11.18	50.95	11.73	7.41	41.60
1981	15.43	10.50	49.53	16.01	10.88	51.47	11.68	7.58	40.08
1982	15.59	10.11	53.43	16.15	10.51	55.14	12.40	7.50	46.23
1983	15.97	10.45	54.13	16.41	10.73	55.71	13.06	9.18	39.89
1984	16.26	10.98	52.78	17.15	11.72	54.70	10.98	5.87	46.31
1985	16.55	10.77	56.47	17.47	11.43	59.20	11.10	7.02	39.27
1986	15.01	9.87	50.55	15.69	10.45	51.91	10.69	6.24	41.47
1987	16.15	10.15	57.63	17.05	10.85	59.86	11.82	6.26	50.27
1988	15.28	9.58	54.64	16.01	10.10	56.88	11.56	6.63	45.65
1989	15.52	9.53	56.87	16.51	10.27	59.61	11.10	5.55	49.45
1990	15.39	9.44	56.54	16.27	10.05	59.22	10.23	5.68	41.65
1991	15.78	9.72	57.66	16.57	10.32	59.74	11.09	5.54	49.47
1992	14.94	9.35	53.52	15.68	9.75	56.69	11.23	7.77	35.16
1993	15.26	9.14	57.58	16.07	9.63	60.63	11.62	6.59	46.34
1994	14.49	8.90	53.14	15.02	9.18	55.39	12.35	6.49	52.86
1995	14.60	8.78	54.86	15.38	9.34	57.17	10.30	4.89	47.70
1996	14.13	8.42	53.56	15.29	9.23	57.13	9.03	4.53	40.11
1997	14.73	9.22	52.84	15.42	9.68	55.16	10.74	5.79	44.91
1998	14.36	8.84	52.54	15.05	9.20	55.50	11.16	6.17	45.68
1999	14.73	8.76	56.00	15.46	8.99	60.18	10.94	6.54	41.36
2000	14.36	9.09	50.83	15.19	9.62	53.76	11.13	5.67	48.83
2001	14.62	9.22	52.00	15.66	9.83	55.93	9.53	6.35	31.47
2002	13.89	8.09	54.01	14.52	8.47	56.32	10.58	5.65	44.62
2003	13.72	8.50	49.82	14.26	8.98	50.75	12.40	6.22	55.08
2004	13.38	8.17	49.38	14.01	8.36	53.01	10.54	6.66	37.37
2005	13.01	8.19	46.36	13.54	8.28	49.90	11.09	7.48	36.06
2006	13.00	7.72	49.48	13.71	8.10	52.51	9.33	5.69	34.52
2007	13.07	8.20	46.79	13.54	8.52	48.28	11.72	6.02	51.07
2008	12.97	7.58	50.21	13.76	7.92	54.16	9.48	5.13	39.58
2009	13.09	8.11	47.47	13.91	8.44	51.69	9.76	5.39	39.98
2010	12.92	7.83	48.13	13.61	8.20	51.05	10.44	5.80	42.46
2011	12.44	7.67	45.45	13.11	7.94	48.84	10.67	6.23	41.43
2012	12.13	7.61	43.36	12.72	7.93	45.83	10.65	6.20	41.44
2013	11.69	7.18	42.87	12.20	7.34	45.73	9.44	5.21	38.69
2014	11.74	7.49	41.13	12.27	7.58	44.71	9.47	6.56	29.57
2015	11.77	7.44	41.76	12.46	7.65	45.75	9.29	6.01	31.95
2016	10.40	6.46	37.61	10.79	6.54	40.18	9.65	6.09	34.27

Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 21.5  
Cancer of the Ovary (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

	All Races, Females			White Females			Black Females		
	All	<65	65+	All	<65	65+	All	<65	65+
Year of Diagnosis:									
1975-2016	14.04	8.83	50.09	14.81	9.30	52.91	10.66	6.25	41.10
1975-1979	15.71	11.11	47.54	16.33	11.56	49.31	11.25	7.72	35.59
1980	15.46	10.65	48.68	16.21	11.18	50.95	11.73	7.41	41.60
1981	15.43	10.50	49.53	16.01	10.88	51.47	11.68	7.58	40.08
1982	15.59	10.11	53.43	16.15	10.51	55.14	12.40	7.50	46.23
1983	15.97	10.45	54.13	16.41	10.73	55.71	13.06	9.18	39.89
1984	16.26	10.98	52.78	17.15	11.72	54.70	10.98	5.87	46.31
1985	16.55	10.77	56.47	17.47	11.43	59.20	11.10	7.02	39.27
1986	15.01	9.87	50.55	15.69	10.45	51.91	10.69	6.24	41.47
1987	16.15	10.15	57.63	17.05	10.85	59.86	11.82	6.26	50.27
1988	15.28	9.58	54.64	16.01	10.10	56.88	11.56	6.63	45.65
1989	15.52	9.53	56.87	16.51	10.27	59.61	11.10	5.55	49.45
1990	15.39	9.44	56.54	16.27	10.05	59.22	10.23	5.68	41.65
1991	15.78	9.72	57.66	16.57	10.32	59.74	11.09	5.54	49.47
1992	14.94	9.35	53.52	15.68	9.75	56.69	11.23	7.77	35.16
1993	15.26	9.14	57.58	16.07	9.63	60.63	11.62	6.59	46.34
1994	14.49	8.90	53.14	15.02	9.18	55.39	12.35	6.49	52.86
1995	14.60	8.78	54.86	15.38	9.34	57.17	10.30	4.89	47.70
1996	14.13	8.42	53.56	15.29	9.23	57.13	9.03	4.53	40.11
1997	14.73	9.22	52.84	15.42	9.68	55.16	10.74	5.79	44.91
1998	14.36	8.84	52.54	15.05	9.20	55.50	11.16	6.17	45.68
1999	14.73	8.76	56.00	15.46	8.99	60.18	10.94	6.54	41.36
2000	14.36	9.09	50.83	15.19	9.62	53.76	11.13	5.67	48.83
2001	14.62	9.22	52.00	15.66	9.83	55.93	9.53	6.35	31.47
2002	13.89	8.09	54.01	14.52	8.47	56.32	10.58	5.65	44.62
2003	13.72	8.50	49.82	14.26	8.98	50.75	12.40	6.22	55.08
2004	13.38	8.17	49.38	14.01	8.36	53.01	10.54	6.66	37.37
2005	13.01	8.19	46.36	13.54	8.28	49.90	11.09	7.48	36.06
2006	13.00	7.72	49.48	13.71	8.10	52.51	9.33	5.69	34.52
2007	13.07	8.20	46.79	13.54	8.52	48.28	11.72	6.02	51.07
2008	12.95	7.57	50.17	13.75	7.91	54.10	9.46	5.12	39.46
2009	13.05	8.09	47.39	13.88	8.42	51.57	9.71	5.36	39.76
2010	12.88	7.79	48.01	13.57	8.17	50.88	10.36	5.76	42.12
2011	12.38	7.62	45.30	13.05	7.90	48.62	10.56	6.16	41.00
2012	12.06	7.55	43.17	12.64	7.88	45.57	10.51	6.11	40.89
2013	11.61	7.12	42.65	12.11	7.29	45.43	9.31	5.14	38.14
2014	11.61	7.39	40.79	12.14	7.50	44.23	9.27	6.43	28.92
2015	11.59	7.31	41.18	12.27	7.54	44.98	9.06	5.86	31.15
2016	10.12	6.30	36.53	10.50	6.38	38.97	9.31	5.88	33.01

Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 21.6  
Cancer of the Ovary (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Age

	All Races, Females			White Females			Black Females		
	All	<65	65+	All	<65	65+	All	<65	65+
Year of Death:									
1975-2016	8.62	3.82	41.81	8.94	3.99	43.11	7.15	3.10	35.12
1975-1979	9.66	5.51	38.36	9.94	5.68	39.41	7.49	4.42	28.76
1980	9.29	4.97	39.15	9.52	5.11	39.96	7.85	4.18	33.21
1981	9.23	4.94	38.89	9.48	5.10	39.75	7.36	3.74	32.36
1982	9.22	4.80	39.81	9.49	4.97	40.72	7.41	3.64	33.45
1983	9.20	4.70	40.34	9.43	4.80	41.38	7.67	4.11	32.25
1984	9.11	4.63	40.08	9.36	4.79	40.93	7.55	3.76	33.80
1985	9.08	4.57	40.23	9.34	4.72	41.29	7.30	3.74	31.87
1986	9.24	4.57	41.55	9.52	4.73	42.63	7.42	3.66	33.43
1987	9.18	4.46	41.86	9.46	4.64	42.82	7.55	3.52	35.45
1988	9.31	4.41	43.16	9.55	4.56	44.08	7.87	3.67	36.88
1989	9.21	4.30	43.20	9.52	4.49	44.27	7.41	3.26	36.16
1990	9.33	4.26	44.35	9.61	4.46	45.23	7.86	3.32	39.24
1991	9.51	4.32	45.37	9.74	4.48	46.13	8.36	3.43	42.46
1992	9.46	4.24	45.51	9.70	4.38	46.49	8.19	3.59	39.99
1993	9.08	4.02	44.06	9.34	4.19	44.93	7.74	3.02	40.42
1994	9.38	4.14	45.64	9.67	4.32	46.70	7.82	3.20	39.72
1995	9.12	3.96	44.77	9.47	4.17	46.07	7.37	2.93	38.04
1996	8.86	3.82	43.70	9.13	3.97	44.80	7.32	2.89	37.92
1997	8.94	3.77	44.70	9.21	3.94	45.59	7.93	3.11	41.19
1998	8.73	3.68	43.64	9.02	3.81	45.03	7.37	3.22	36.06
1999	8.77	3.73	43.57	9.07	3.90	44.83	7.38	3.05	37.31
2000	8.89	3.67	45.00	9.25	3.85	46.58	7.15	2.90	36.50
2001	9.00	3.73	45.47	9.32	3.87	46.95	7.52	3.19	37.47
2002	9.04	3.78	45.36	9.39	3.96	46.89	7.43	3.09	37.49
2003	8.87	3.66	44.84	9.19	3.82	46.28	7.46	3.09	37.69
2004	8.78	3.52	45.17	9.09	3.64	46.72	7.65	3.10	39.16
2005	8.66	3.55	44.00	9.00	3.72	45.44	7.28	2.85	37.87
2006	8.56	3.44	43.98	8.95	3.61	45.82	6.85	2.87	34.40
2007	8.25	3.18	43.33	8.64	3.35	45.24	6.56	2.62	33.79
2008	7.98	3.10	41.69	8.28	3.23	43.22	6.63	2.61	34.39
2009	7.85	3.13	40.45	8.15	3.28	41.82	6.75	2.65	35.08
2010	7.80	3.02	40.84	8.11	3.13	42.52	6.64	2.68	34.03
2011	7.54	2.94	39.32	7.82	3.05	40.85	6.58	2.53	34.54
2012	7.40	2.91	38.44	7.68	3.04	39.77	6.64	2.53	35.06
2013	7.20	2.77	37.84	7.52	2.89	39.52	5.97	2.38	30.78
2014	7.02	2.73	36.64	7.29	2.83	38.11	6.37	2.54	32.79
2015	6.74	2.62	35.20	6.98	2.70	36.54	6.01	2.31	31.59
2016	6.76	2.66	35.13	7.04	2.72	36.90	5.62	2.45	27.55

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 22.4  
Cancer of the Pancreas (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	11.66	14.68	9.47	11.42	14.48	9.23	16.35	19.86	13.64
1980	11.51	14.19	9.61	11.06	13.69	9.18	17.94	21.76	15.53
1981	11.68	13.54	10.17	11.39	13.26	9.91	17.18	20.86	14.10
1982	11.72	13.81	10.18	11.41	13.46	9.95	16.86	20.99	13.96
1983	12.19	14.66	10.44	11.75	14.07	10.12	18.13	23.05	14.90
1984	12.22	13.94	10.93	12.03	13.87	10.64	17.19	18.36	16.34
1985	12.10	14.35	10.50	11.70	13.60	10.34	18.80	25.28	14.55
1986	11.68	13.78	10.21	11.37	13.54	9.82	17.32	20.16	15.59
1987	11.61	13.81	10.11	11.10	13.38	9.56	18.32	18.98	17.78
1988	11.66	13.72	10.21	11.11	13.36	9.57	18.56	19.55	17.45
1989	11.33	12.88	10.07	10.98	12.66	9.64	15.02	16.12	14.00
1990	11.28	12.81	10.06	11.02	12.46	9.84	15.20	18.82	12.63
1991	11.39	12.90	10.22	11.04	12.61	9.79	17.01	18.20	16.16
1992	11.62	13.22	10.34	11.33	12.90	10.02	17.34	19.77	15.75
1993	10.97	12.54	9.70	10.51	11.98	9.30	16.97	18.90	15.33
1994	11.37	13.26	9.90	10.89	12.35	9.73	17.45	21.53	14.49
1995	11.14	12.73	9.96	10.71	12.32	9.57	18.15	20.40	16.31
1996	11.30	12.92	9.93	10.91	12.48	9.57	17.06	19.68	14.88
1997	11.49	13.07	10.19	11.02	12.56	9.72	17.95	19.47	16.62
1998	11.49	13.12	10.23	11.25	12.99	9.87	14.80	16.36	13.89
1999	11.10	12.58	9.82	10.71	12.23	9.34	16.70	19.53	14.69
2000	11.42	13.33	9.84	11.07	12.93	9.56	15.75	18.16	13.38
2001	11.34	13.18	9.99	11.06	13.08	9.53	14.29	15.53	13.33
2002	11.77	13.06	10.58	11.59	13.28	10.08	16.12	14.92	16.24
2003	11.65	12.91	10.60	11.44	12.71	10.34	16.13	17.10	15.40
2004	12.00	13.97	10.35	11.75	13.61	10.18	16.09	19.55	13.45
2005	12.10	13.84	10.69	11.79	13.52	10.34	17.21	18.62	16.50
2006	12.60	14.31	11.21	12.48	14.48	10.83	16.96	18.37	15.71
2007	12.49	14.42	10.91	12.34	14.43	10.61	15.57	16.42	14.81
2008	12.76	14.60	11.26	12.40	14.25	10.85	17.31	19.37	15.86
2009	13.15	14.78	11.80	12.85	14.51	11.49	17.54	20.49	15.24
2010	12.66	13.98	11.52	12.25	13.61	11.07	17.25	19.34	15.65
2011	12.52	14.61	10.82	12.29	14.37	10.55	16.20	17.88	14.92
2012	13.14	14.69	11.84	13.01	15.07	11.29	17.00	16.18	17.14
2013	13.00	14.74	11.59	12.80	14.44	11.41	16.11	18.51	14.56
2014	13.01	14.92	11.40	12.95	14.81	11.33	16.85	20.23	14.31
2015	13.14	14.68	11.82	13.02	14.51	11.68	16.62	19.27	14.85
2016	13.18	14.67	11.93	13.02	14.50	11.74	16.12	17.38	15.12

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 22.5  
Cancer of the Pancreas (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	12.01	13.87	10.53	11.69	13.60	10.18	16.68	18.85	15.04
1975-1979	11.66	14.68	9.47	11.42	14.48	9.23	16.35	19.86	13.64
1980	11.51	14.19	9.61	11.06	13.69	9.18	17.94	21.76	15.53
1981	11.68	13.54	10.17	11.39	13.26	9.91	17.18	20.86	14.10
1982	11.72	13.81	10.18	11.41	13.46	9.95	16.86	20.99	13.96
1983	12.19	14.66	10.44	11.75	14.07	10.12	18.13	23.05	14.90
1984	12.22	13.94	10.93	12.03	13.87	10.64	17.19	18.36	16.34
1985	12.10	14.35	10.50	11.70	13.60	10.34	18.80	25.28	14.55
1986	11.68	13.78	10.21	11.37	13.54	9.82	17.32	20.16	15.59
1987	11.61	13.81	10.11	11.10	13.38	9.56	18.32	18.98	17.78
1988	11.66	13.72	10.21	11.11	13.36	9.57	18.56	19.55	17.45
1989	11.33	12.88	10.07	10.98	12.66	9.64	15.02	16.12	14.00
1990	11.28	12.81	10.06	11.02	12.46	9.84	15.20	18.82	12.63
1991	11.39	12.90	10.22	11.04	12.61	9.79	17.01	18.20	16.16
1992	11.62	13.22	10.34	11.33	12.90	10.02	17.34	19.77	15.75
1993	10.97	12.54	9.70	10.51	11.98	9.30	16.97	18.90	15.33
1994	11.37	13.26	9.90	10.89	12.35	9.73	17.45	21.53	14.49
1995	11.14	12.73	9.96	10.71	12.32	9.57	18.15	20.40	16.31
1996	11.30	12.92	9.93	10.91	12.48	9.57	17.06	19.68	14.88
1997	11.49	13.07	10.19	11.02	12.56	9.72	17.95	19.47	16.62
1998	11.49	13.12	10.23	11.25	12.99	9.87	14.80	16.36	13.89
1999	11.10	12.58	9.82	10.71	12.23	9.34	16.70	19.53	14.69
2000	11.42	13.33	9.84	11.07	12.93	9.56	15.75	18.16	13.38
2001	11.34	13.18	9.99	11.06	13.08	9.53	14.29	15.53	13.33
2002	11.77	13.06	10.58	11.59	13.28	10.08	16.12	14.92	16.24
2003	11.65	12.91	10.60	11.44	12.71	10.34	16.13	17.10	15.40
2004	12.00	13.97	10.35	11.75	13.61	10.18	16.09	19.55	13.45
2005	12.10	13.84	10.69	11.79	13.52	10.34	17.21	18.62	16.50
2006	12.60	14.31	11.21	12.48	14.48	10.83	16.96	18.37	15.71
2007	12.49	14.42	10.91	12.34	14.43	10.61	15.57	16.42	14.81
2008	12.75	14.59	11.25	12.39	14.24	10.84	17.30	19.35	15.84
2009	13.13	14.76	11.79	12.83	14.49	11.47	17.51	20.45	15.22
2010	12.64	13.96	11.50	12.22	13.58	11.04	17.20	19.29	15.60
2011	12.49	14.57	10.79	12.25	14.33	10.52	16.14	17.81	14.86
2012	13.10	14.64	11.80	12.96	15.01	11.25	16.91	16.10	17.05
2013	12.95	14.68	11.55	12.75	14.38	11.36	16.00	18.39	14.47
2014	12.93	14.83	11.34	12.87	14.72	11.26	16.69	20.05	14.16
2015	13.02	14.55	11.71	12.89	14.37	11.57	16.44	19.06	14.69
2016	12.87	14.32	11.65	12.67	14.09	11.43	15.72	16.98	14.73

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 22.6  
Cancer of the Pancreas (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	10.75	12.62	9.29	10.54	12.44	9.05	13.96	16.02	12.42
1975-1979	10.75	13.66	8.67	10.56	13.47	8.50	13.04	16.26	10.66
1980	10.62	13.10	8.83	10.36	12.85	8.58	13.78	16.47	11.80
1981	10.70	13.16	8.92	10.50	12.91	8.77	13.40	16.96	10.83
1982	10.59	13.06	8.85	10.32	12.76	8.60	14.09	17.07	11.91
1983	10.69	12.82	9.13	10.36	12.40	8.87	14.78	18.10	12.45
1984	10.80	12.96	9.22	10.45	12.61	8.89	14.96	17.52	13.08
1985	10.63	12.86	9.03	10.33	12.53	8.76	14.43	17.29	12.40
1986	10.60	12.46	9.23	10.30	12.16	8.93	14.60	16.72	13.04
1987	10.59	12.52	9.18	10.28	12.16	8.90	14.58	17.36	12.61
1988	10.49	12.51	8.98	10.15	12.16	8.65	14.52	17.05	12.66
1989	10.62	12.61	9.17	10.25	12.22	8.82	15.02	17.71	13.15
1990	10.69	12.59	9.25	10.34	12.19	8.92	15.18	18.08	13.21
1991	10.69	12.58	9.28	10.40	12.27	8.99	14.55	16.93	12.79
1992	10.70	12.61	9.27	10.35	12.23	8.92	15.40	18.22	13.44
1993	10.66	12.41	9.37	10.33	12.06	9.05	15.05	17.59	13.31
1994	10.64	12.37	9.31	10.28	11.98	8.95	15.16	17.69	13.38
1995	10.45	12.13	9.18	10.21	11.91	8.92	13.90	15.78	12.54
1996	10.47	12.08	9.23	10.17	11.79	8.91	14.43	16.45	12.97
1997	10.45	12.22	9.07	10.16	11.97	8.76	14.57	16.39	13.14
1998	10.52	12.29	9.15	10.23	12.02	8.83	14.52	16.49	13.07
1999	10.62	12.32	9.27	10.38	12.07	9.03	14.18	16.58	12.40
2000	10.55	12.14	9.26	10.33	11.98	8.99	14.05	15.79	12.70
2001	10.57	12.15	9.30	10.40	12.05	9.07	13.70	15.07	12.56
2002	10.56	12.22	9.23	10.36	12.08	8.96	13.70	15.47	12.37
2003	10.55	12.09	9.29	10.35	11.93	9.04	13.84	15.53	12.52
2004	10.70	12.40	9.31	10.51	12.23	9.09	13.71	15.57	12.22
2005	10.83	12.42	9.53	10.67	12.29	9.33	13.77	15.47	12.47
2006	10.86	12.43	9.55	10.71	12.39	9.32	13.70	14.88	12.64
2007	10.84	12.56	9.46	10.67	12.45	9.22	14.04	15.59	12.79
2008	10.96	12.51	9.67	10.85	12.45	9.49	13.67	15.12	12.55
2009	10.84	12.43	9.53	10.72	12.37	9.37	13.58	15.00	12.37
2010	10.98	12.70	9.58	10.87	12.63	9.42	13.62	15.72	12.08
2011	10.88	12.49	9.54	10.78	12.47	9.36	13.32	14.84	12.11
2012	11.01	12.65	9.63	10.93	12.69	9.42	13.39	14.50	12.48
2013	10.82	12.44	9.45	10.73	12.41	9.30	13.42	14.88	12.18
2014	10.92	12.61	9.50	10.89	12.64	9.39	13.18	14.95	11.80
2015	11.00	12.66	9.59	10.93	12.69	9.41	13.36	14.85	12.21
2016	11.05	12.67	9.69	11.00	12.69	9.55	13.31	14.86	12.15

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 23.4  
Cancer of the Prostate (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Males			White Males			Black Males		
	All	<65	65+	All	<65	65+	All	<65	65+
1975-1979	99.14	14.71	682.70	97.69	14.16	675.05	150.71	27.73	1,000.84
1980	106.05	15.52	731.77	105.00	14.69	729.23	161.14	33.79	1,041.42
1981	108.88	16.84	745.11	107.87	15.96	743.20	162.01	34.72	1,041.86
1982	108.25	16.36	743.41	107.33	15.81	739.99	167.75	31.46	1,109.83
1983	111.63	17.17	764.62	110.84	16.62	762.09	171.07	34.02	1,118.41
1984	111.69	17.26	764.40	110.10	16.20	759.14	178.74	37.05	1,158.14
1985	115.52	17.95	790.00	114.66	17.70	784.82	170.41	31.59	1,129.99
1986	119.10	18.55	814.14	119.05	18.30	815.47	168.59	34.08	1,098.34
1987	133.78	21.53	909.65	134.61	21.12	919.13	189.42	36.06	1,249.49
1988	137.63	22.18	935.70	138.73	22.25	943.85	190.20	34.88	1,263.80
1989	145.41	24.21	983.22	146.21	24.11	990.23	191.83	37.41	1,259.25
1990	171.14	28.91	1,154.25	172.92	28.98	1,167.93	222.53	44.83	1,450.91
1991	214.88	38.94	1,431.05	216.57	39.41	1,441.16	289.85	57.64	1,894.97
1992	237.54	49.51	1,537.30	238.69	49.53	1,546.22	330.96	78.77	2,074.25
1993	209.63	50.47	1,309.80	204.75	48.94	1,281.78	347.54	95.45	2,090.03
1994	180.41	48.69	1,090.92	174.47	46.88	1,056.40	315.68	96.20	1,832.83
1995	169.55	50.19	994.54	164.77	48.18	970.67	286.02	100.86	1,565.91
1996	169.66	53.61	971.85	165.64	52.13	950.22	286.38	101.44	1,564.74
1997	173.80	55.36	992.50	170.45	53.99	975.44	288.35	98.88	1,598.03
1998	171.23	55.07	974.21	167.78	53.13	960.30	292.39	104.98	1,587.84
1999	183.70	60.89	1,032.63	179.60	58.85	1,014.26	296.56	114.34	1,556.16
2000	183.35	61.90	1,022.80	179.83	59.82	1,009.37	296.63	117.18	1,537.03
2001	185.37	64.72	1,019.33	183.30	62.73	1,016.72	279.97	116.46	1,410.21
2002	182.66	65.66	991.40	180.15	64.07	982.52	293.06	118.71	1,498.21
2003	170.16	62.12	916.92	166.84	59.83	906.51	265.71	117.66	1,289.03
2004	166.31	62.12	886.51	162.91	60.56	870.35	262.85	107.93	1,333.74
2005	157.05	58.09	841.07	152.46	55.55	822.37	256.76	107.94	1,285.43
2006	172.57	64.88	916.92	169.01	62.70	903.84	259.12	110.83	1,284.17
2007	175.66	66.93	927.25	171.15	64.04	911.59	271.20	121.20	1,308.06
2008	158.82	62.87	822.04	154.37	60.23	805.07	258.12	112.94	1,261.65
2009	156.14	62.74	801.77	152.30	60.46	787.12	249.79	112.18	1,201.02
2010	148.95	59.38	768.04	145.46	56.91	757.54	236.60	108.24	1,123.87
2011	142.89	57.81	730.96	138.88	55.29	716.64	226.93	107.08	1,055.34
2012	116.93	47.05	599.96	112.06	43.86	583.53	196.33	94.11	902.96
2013	111.86	44.90	574.67	107.93	42.33	561.37	190.74	89.03	893.77
2014	102.87	41.89	524.40	99.82	39.57	516.30	165.50	79.58	759.48
2015	108.79	42.94	564.00	105.36	39.77	558.74	174.82	87.43	778.85
2016	111.89	43.68	583.37	106.98	40.24	568.26	184.12	87.22	853.90

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 23.5  
Cancer of the Prostate (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

	All Races, Males			White Males			Black Males		
	All	<65	65+	All	<65	65+	All	<65	65+
Year of Diagnosis:									
1975-2016	145.42	43.88	847.32	142.28	41.60	838.25	228.88	83.39	1,234.54
1975-1979	99.14	14.71	682.70	97.69	14.16	675.05	150.71	27.73	1,000.84
1980	106.05	15.52	731.77	105.00	14.69	729.23	161.14	33.79	1,041.42
1981	108.88	16.84	745.11	107.87	15.96	743.20	162.01	34.72	1,041.86
1982	108.25	16.36	743.41	107.33	15.81	739.99	167.75	31.46	1,109.83
1983	111.63	17.17	764.62	110.84	16.62	762.09	171.07	34.02	1,118.41
1984	111.69	17.26	764.40	110.10	16.20	759.14	178.74	37.05	1,158.14
1985	115.52	17.95	790.00	114.66	17.70	784.82	170.41	31.59	1,129.99
1986	119.10	18.55	814.14	119.05	18.30	815.47	168.59	34.08	1,098.34
1987	133.78	21.53	909.65	134.61	21.12	919.13	189.42	36.06	1,249.49
1988	137.63	22.18	935.70	138.73	22.25	943.85	190.20	34.88	1,263.80
1989	145.41	24.21	983.22	146.21	24.11	990.23	191.83	37.41	1,259.25
1990	171.14	28.91	1,154.25	172.92	28.98	1,167.93	222.53	44.83	1,450.91
1991	214.88	38.94	1,431.05	216.57	39.41	1,441.16	289.85	57.64	1,894.97
1992	237.54	49.51	1,537.30	238.69	49.53	1,546.22	330.96	78.77	2,074.25
1993	209.63	50.47	1,309.80	204.75	48.94	1,281.78	347.54	95.45	2,090.03
1994	180.41	48.69	1,090.92	174.47	46.88	1,056.40	315.68	96.20	1,832.83
1995	169.55	50.19	994.54	164.77	48.18	970.67	286.02	100.86	1,565.91
1996	169.66	53.61	971.85	165.64	52.13	950.22	286.38	101.44	1,564.74
1997	173.80	55.36	992.50	170.45	53.99	975.44	288.35	98.88	1,598.03
1998	171.23	55.07	974.21	167.78	53.13	960.30	292.39	104.98	1,587.84
1999	183.70	60.89	1,032.63	179.60	58.85	1,014.26	296.56	114.34	1,556.16
2000	183.35	61.90	1,022.80	179.83	59.82	1,009.37	296.63	117.18	1,537.03
2001	185.37	64.72	1,019.33	183.30	62.73	1,016.72	279.97	116.46	1,410.21
2002	182.66	65.66	991.40	180.15	64.07	982.52	293.06	118.71	1,498.21
2003	170.16	62.12	916.92	166.84	59.83	906.51	265.71	117.66	1,289.03
2004	166.31	62.12	886.51	162.91	60.56	870.35	262.85	107.93	1,333.74
2005	157.05	58.09	841.07	152.46	55.55	822.37	256.76	107.94	1,285.43
2006	172.57	64.88	916.92	169.01	62.70	903.84	259.12	110.83	1,284.17
2007	175.66	66.93	927.25	171.15	64.04	911.59	271.20	121.20	1,308.06
2008	158.59	62.81	820.69	154.00	60.11	802.98	256.84	112.40	1,255.23
2009	155.70	62.61	799.13	151.57	60.22	783.04	247.35	111.14	1,188.85
2010	148.32	59.20	764.36	144.42	56.56	751.76	233.06	106.71	1,106.43
2011	142.10	57.58	726.34	137.56	54.84	709.35	222.50	105.08	1,034.15
2012	116.13	46.82	595.22	110.75	43.41	576.17	191.45	91.93	879.34
2013	110.92	44.64	569.13	106.40	41.81	552.87	184.97	86.51	865.53
2014	101.61	41.51	517.00	97.81	38.87	505.21	159.80	76.93	732.62
2015	106.86	42.36	552.71	102.42	38.78	542.30	167.43	83.87	744.98
2016	108.40	42.53	563.70	102.05	38.58	540.78	172.83	82.03	800.46

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.



Table 23.6  
Cancer of the Prostate (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Age

	All Races, Males			White Males			Black Males		
	All	<65	65+	All	<65	65+	All	<65	65+
Year of Death:									
1975-2016	28.89	2.19	213.44	26.81	1.89	199.08	59.61	5.48	433.77
1975-1979	32.04	2.62	235.43	30.08	2.25	222.44	57.10	6.75	405.12
1980	33.05	2.67	243.08	30.77	2.33	227.39	61.99	6.57	445.03
1981	33.17	2.68	243.95	30.76	2.30	227.52	63.61	7.06	454.45
1982	33.36	2.68	245.47	31.09	2.34	229.85	62.36	6.62	447.67
1983	33.92	2.76	249.30	31.57	2.40	233.18	64.55	6.99	462.46
1984	34.06	2.71	250.77	31.58	2.37	233.49	65.93	6.74	475.13
1985	33.91	2.73	249.43	31.28	2.34	231.34	67.26	7.16	482.68
1986	34.93	2.80	256.99	32.46	2.47	239.72	67.39	6.63	487.36
1987	35.11	2.71	259.06	32.57	2.38	241.27	68.88	6.66	499.03
1988	35.88	2.83	264.40	33.38	2.47	247.08	69.57	6.98	502.28
1989	37.10	2.97	273.01	34.54	2.62	255.20	71.71	7.06	518.54
1990	38.56	3.02	284.23	35.67	2.65	263.98	77.98	7.43	565.65
1991	39.31	2.89	291.08	36.50	2.52	271.39	78.24	7.06	570.21
1992	39.22	2.86	290.58	36.29	2.44	270.28	79.84	7.66	578.73
1993	39.34	2.72	292.48	36.26	2.33	270.82	81.86	7.04	599.08
1994	38.54	2.67	286.48	35.64	2.31	266.04	79.96	6.76	585.93
1995	37.29	2.58	277.23	34.41	2.22	256.93	78.20	6.70	572.47
1996	36.00	2.50	267.61	33.00	2.13	246.38	78.84	6.45	579.20
1997	34.15	2.31	254.26	31.35	1.94	234.58	74.30	6.32	544.22
1998	32.63	2.27	242.49	29.89	1.90	223.36	72.77	6.28	532.41
1999	31.56	2.06	235.48	28.91	1.72	216.88	70.13	5.80	514.78
2000	30.39	1.98	226.82	27.78	1.66	208.29	68.90	5.40	507.82
2001	29.52	1.94	220.14	26.97	1.63	202.08	67.82	5.33	499.72
2002	28.71	1.92	213.87	26.36	1.60	197.48	64.98	5.26	477.81
2003	27.19	1.90	201.97	25.02	1.59	186.95	60.37	5.30	441.02
2004	26.19	1.82	194.64	24.04	1.55	179.54	59.00	4.79	433.72
2005	25.40	1.80	188.57	23.33	1.51	174.20	57.02	4.83	417.76
2006	24.24	1.84	179.14	22.34	1.58	165.81	53.73	4.57	393.54
2007	24.23	1.75	179.68	22.23	1.49	165.58	54.88	4.51	403.03
2008	23.01	1.78	169.73	21.34	1.52	158.30	49.11	4.48	357.62
2009	22.12	1.70	163.30	20.34	1.43	151.06	49.35	4.45	359.70
2010	21.81	1.78	160.29	20.10	1.51	148.61	48.08	4.40	350.00
2011	20.78	1.66	152.99	19.25	1.39	142.74	43.97	4.25	318.55
2012	19.56	1.66	143.32	18.13	1.44	133.51	41.63	3.86	302.70
2013	19.26	1.67	140.90	18.00	1.44	132.48	39.12	3.94	282.28
2014	19.10	1.66	139.69	17.90	1.42	131.83	37.98	3.95	273.26
2015	18.93	1.64	138.44	17.72	1.41	130.48	37.51	3.83	270.31
2016	19.39	1.72	141.54	18.18	1.45	133.84	38.39	4.20	274.68

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 24.4  
Cancer of the Stomach (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	11.78	17.02	8.05	10.64	15.50	7.22	17.30	24.86	11.72
1980	11.29	17.13	7.17	10.32	15.68	6.56	15.12	26.32	7.32
1981	11.14	16.60	7.39	10.05	15.07	6.68	17.60	27.84	10.39
1982	10.92	16.29	7.12	9.71	14.58	6.34	19.03	31.17	10.33
1983	10.94	15.86	7.47	9.54	13.69	6.59	18.08	27.78	11.29
1984	10.57	15.32	7.31	9.42	13.90	6.41	16.59	21.84	12.53
1985	10.22	15.09	6.87	8.92	13.32	5.96	16.44	23.50	11.34
1986	10.21	15.02	6.81	9.06	13.53	5.88	16.47	23.17	11.88
1987	10.20	15.06	6.81	8.98	13.26	5.96	17.06	26.68	10.69
1988	10.20	15.50	6.47	8.81	13.58	5.48	16.22	24.75	10.09
1989	10.01	15.15	6.34	8.74	13.47	5.36	15.78	23.16	10.66
1990	9.28	13.74	6.19	7.95	11.91	5.20	14.44	21.78	9.43
1991	9.71	14.20	6.58	8.30	12.32	5.52	16.49	25.77	10.42
1992	9.20	13.37	6.16	7.97	11.68	5.25	14.02	19.90	9.84
1993	9.03	13.61	5.80	7.67	11.61	4.88	14.44	23.70	8.49
1994	9.01	13.60	5.70	7.69	11.75	4.76	15.03	24.74	8.76
1995	8.34	12.58	5.23	7.24	11.23	4.34	13.41	18.97	9.58
1996	8.49	12.61	5.53	7.32	11.03	4.68	14.48	22.59	8.91
1997	8.61	12.71	5.63	7.15	10.79	4.50	15.73	22.35	11.01
1998	8.59	12.21	5.94	7.18	10.52	4.76	14.98	20.16	11.45
1999	8.58	12.06	6.02	7.37	10.50	5.01	13.18	18.26	10.08
2000	8.11	11.73	5.42	6.79	9.87	4.47	12.95	19.97	8.25
2001	7.79	11.29	5.14	6.50	9.69	4.05	13.05	18.60	9.01
2002	7.98	11.30	5.50	6.70	9.88	4.32	13.11	15.68	11.06
2003	7.81	10.88	5.48	6.59	9.33	4.44	13.43	18.52	10.04
2004	7.91	11.33	5.32	6.97	10.00	4.61	11.28	17.19	7.45
2005	7.49	10.71	5.02	6.46	9.23	4.26	11.56	18.21	7.43
2006	7.60	10.71	5.20	6.53	9.33	4.30	12.61	17.16	9.36
2007	7.29	10.51	4.80	6.22	9.18	3.85	11.59	17.77	7.61
2008	7.26	10.18	4.98	6.09	8.81	3.87	13.01	18.46	9.58
2009	7.46	10.48	5.13	6.30	9.22	3.96	11.76	15.72	9.38
2010	7.04	9.64	4.96	6.11	8.65	4.00	10.48	13.68	8.30
2011	7.27	9.95	5.14	6.30	8.87	4.21	11.67	14.31	9.71
2012	7.09	9.45	5.24	6.11	8.31	4.36	10.77	15.01	8.05
2013	6.84	9.27	4.89	5.88	8.21	3.96	10.07	13.77	7.37
2014	6.68	9.38	4.48	5.69	8.19	3.59	10.23	13.61	7.71
2015	6.60	9.02	4.69	5.64	7.84	3.85	10.65	13.65	8.50
2016	6.66	8.68	5.10	5.76	7.62	4.27	9.83	13.90	7.33

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

<sup>a</sup>

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Table 24.5  
Cancer of the Stomach (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	8.62	12.32	5.85	7.52	10.91	4.96	13.46	19.41	9.38
1975-1979	11.78	17.02	8.05	10.64	15.50	7.22	17.30	24.86	11.72
1980	11.29	17.13	7.17	10.32	15.68	6.56	15.12	26.32	7.32
1981	11.14	16.60	7.39	10.05	15.07	6.68	17.60	27.84	10.39
1982	10.92	16.29	7.12	9.71	14.58	6.34	19.03	31.17	10.33
1983	10.94	15.86	7.47	9.54	13.69	6.59	18.08	27.78	11.29
1984	10.57	15.32	7.31	9.42	13.90	6.41	16.59	21.84	12.53
1985	10.22	15.09	6.87	8.92	13.32	5.96	16.44	23.50	11.34
1986	10.21	15.02	6.81	9.06	13.53	5.88	16.47	23.17	11.88
1987	10.20	15.06	6.81	8.98	13.26	5.96	17.06	26.68	10.69
1988	10.20	15.50	6.47	8.81	13.58	5.48	16.22	24.75	10.09
1989	10.01	15.15	6.34	8.74	13.47	5.36	15.78	23.16	10.66
1990	9.28	13.74	6.19	7.95	11.91	5.20	14.44	21.78	9.43
1991	9.71	14.20	6.58	8.30	12.32	5.52	16.49	25.77	10.42
1992	9.20	13.37	6.16	7.97	11.68	5.25	14.02	19.90	9.84
1993	9.03	13.61	5.80	7.67	11.61	4.88	14.44	23.70	8.49
1994	9.01	13.60	5.70	7.69	11.75	4.76	15.03	24.74	8.76
1995	8.34	12.58	5.23	7.24	11.23	4.34	13.41	18.97	9.58
1996	8.49	12.61	5.53	7.32	11.03	4.68	14.48	22.59	8.91
1997	8.61	12.71	5.63	7.15	10.79	4.50	15.73	22.35	11.01
1998	8.59	12.21	5.94	7.18	10.52	4.76	14.98	20.16	11.45
1999	8.58	12.06	6.02	7.37	10.50	5.01	13.18	18.26	10.08
2000	8.11	11.73	5.42	6.79	9.87	4.47	12.95	19.97	8.25
2001	7.79	11.29	5.14	6.50	9.69	4.05	13.05	18.60	9.01
2002	7.98	11.30	5.50	6.70	9.88	4.32	13.11	15.68	11.06
2003	7.81	10.88	5.48	6.59	9.33	4.44	13.43	18.52	10.04
2004	7.91	11.33	5.32	6.97	10.00	4.61	11.28	17.19	7.45
2005	7.49	10.71	5.02	6.46	9.23	4.26	11.56	18.21	7.43
2006	7.60	10.71	5.20	6.53	9.33	4.30	12.61	17.16	9.36
2007	7.29	10.51	4.80	6.22	9.18	3.85	11.59	17.77	7.61
2008	7.26	10.18	4.98	6.09	8.81	3.86	12.99	18.44	9.57
2009	7.45	10.47	5.12	6.29	9.21	3.96	11.74	15.70	9.36
2010	7.03	9.62	4.96	6.10	8.63	4.00	10.45	13.64	8.28
2011	7.25	9.93	5.13	6.29	8.85	4.20	11.63	14.26	9.67
2012	7.07	9.43	5.23	6.10	8.29	4.35	10.72	14.93	8.01
2013	6.83	9.24	4.88	5.87	8.18	3.95	10.01	13.69	7.33
2014	6.65	9.33	4.46	5.66	8.15	3.57	10.15	13.50	7.65
2015	6.55	8.94	4.66	5.59	7.77	3.82	10.51	13.48	8.39
2016	6.55	8.54	5.02	5.65	7.47	4.18	9.58	13.55	7.14

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 24.6  
Cancer of the Stomach (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.93	6.93	3.47	4.44	6.24	3.11	8.91	13.21	6.06
1975-1979	7.99	11.54	5.56	7.43	10.71	5.20	13.23	19.60	8.64
1980	7.36	10.57	5.15	6.82	9.76	4.80	12.16	18.27	7.96
1981	7.25	10.58	4.98	6.68	9.80	4.56	12.48	18.06	8.60
1982	7.02	10.26	4.86	6.46	9.37	4.53	12.17	19.24	7.44
1983	6.83	9.90	4.76	6.24	9.02	4.38	12.27	18.39	8.08
1984	6.78	9.89	4.68	6.21	9.07	4.28	11.92	17.95	7.93
1985	6.51	9.54	4.44	5.96	8.75	4.07	11.54	17.03	7.82
1986	6.36	9.44	4.24	5.77	8.58	3.83	11.39	17.39	7.42
1987	6.18	9.11	4.18	5.62	8.32	3.77	11.29	16.97	7.55
1988	6.08	8.81	4.17	5.51	7.92	3.82	11.05	17.02	7.07
1989	6.21	9.18	4.16	5.60	8.28	3.77	11.49	17.73	7.33
1990	6.07	8.86	4.16	5.45	7.95	3.73	11.46	17.24	7.71
1991	6.00	8.86	4.01	5.39	7.97	3.59	11.55	17.64	7.55
1992	5.63	8.14	3.90	5.01	7.30	3.43	10.71	15.55	7.53
1993	5.62	8.19	3.83	5.03	7.34	3.41	10.70	16.26	7.11
1994	5.41	7.87	3.70	4.81	7.04	3.26	10.26	15.37	6.97
1995	5.35	7.70	3.71	4.72	6.89	3.21	10.36	14.89	7.37
1996	5.13	7.43	3.54	4.53	6.60	3.10	9.99	15.09	6.80
1997	4.94	7.16	3.37	4.34	6.33	2.92	9.66	14.64	6.50
1998	4.81	6.83	3.39	4.25	6.06	2.97	9.29	13.72	6.42
1999	4.64	6.59	3.25	4.05	5.78	2.79	9.25	13.73	6.47
2000	4.55	6.38	3.24	3.97	5.63	2.79	8.95	12.77	6.49
2001	4.37	6.11	3.10	3.84	5.39	2.70	8.32	12.06	5.86
2002	4.26	5.98	3.01	3.71	5.29	2.56	8.48	12.20	6.15
2003	4.15	5.75	2.98	3.65	5.05	2.60	7.89	11.56	5.48
2004	4.01	5.59	2.87	3.52	4.91	2.50	7.61	11.31	5.26
2005	3.82	5.29	2.74	3.32	4.59	2.38	7.29	10.89	5.02
2006	3.69	5.08	2.68	3.22	4.47	2.29	6.90	9.97	4.96
2007	3.64	5.05	2.60	3.17	4.39	2.24	6.94	10.52	4.69
2008	3.55	4.87	2.52	3.07	4.23	2.16	6.91	10.03	4.90
2009	3.43	4.71	2.45	2.98	4.09	2.11	6.41	9.41	4.41
2010	3.42	4.64	2.49	2.99	4.03	2.19	6.33	9.32	4.37
2011	3.25	4.42	2.35	2.83	3.87	2.02	6.11	8.79	4.33
2012	3.22	4.31	2.37	2.80	3.76	2.02	5.93	8.42	4.23
2013	3.17	4.34	2.26	2.80	3.82	1.99	5.63	8.23	3.83
2014	3.12	4.22	2.25	2.74	3.69	1.98	5.47	8.16	3.66
2015	3.07	4.11	2.25	2.69	3.58	1.98	5.42	8.06	3.63
2016	3.02	4.04	2.20	2.61	3.46	1.92	5.32	7.91	3.52

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 25.4  
Cancer of the Testis (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

Year of Diagnosis:	All Races, Males			White Males			Black Males		
	All	<50	50+	All	<50	50+	All	<50	50+
1975-1979	3.79	4.46	2.04	4.22	4.98	2.25	0.93	1.12	-
1980	4.34	5.27	1.89	4.88	5.94	2.11	0.83	1.15	0.00
1981	4.23	5.13	1.85	4.77	5.79	2.07	0.60	0.83	0.00
1982	4.40	5.23	2.25	5.01	5.99	2.44	0.70	0.80	0.45
1983	4.60	5.50	2.24	5.23	6.29	2.43	1.29	1.04	1.97
1984	4.40	5.36	1.86	5.05	6.19	2.08	0.62	0.85	0.00
1985	4.47	5.47	1.83	5.13	6.31	2.05	1.07	1.32	0.42
1986	4.81	5.82	2.17	5.56	6.76	2.39	0.56	0.56	0.55
1987	5.05	6.27	1.86	5.72	7.16	1.94	1.01	1.23	0.44
1988	4.63	5.84	1.46	5.44	6.87	1.72	0.60	0.82	0.00
1989	5.48	6.71	2.24	6.31	7.77	2.46	1.23	1.13	1.46
1990	5.09	6.27	2.02	5.99	7.40	2.30	0.56	0.59	0.47
1991	5.10	6.24	2.12	5.75	7.07	2.31	1.18	1.17	1.19
1992	5.15	6.44	1.76	6.09	7.66	1.97	0.53	0.73	0.00
1993	5.07	6.37	1.65	5.99	7.54	1.93	0.66	0.91	0.00
1994	5.49	6.77	2.12	6.30	7.83	2.30	1.23	1.54	0.42
1995	4.55	5.57	1.88	5.23	6.42	2.11	1.46	1.87	0.40
1996	5.25	6.60	1.73	6.21	7.86	1.89	1.10	1.05	1.21
1997	5.41	6.54	2.46	6.36	7.77	2.68	1.27	1.24	1.34
1998	5.60	7.12	1.62	6.58	8.41	1.79	1.57	2.05	0.33
1999	5.45	6.84	1.81	6.34	7.99	2.02	1.71	2.02	0.92
2000	5.74	7.17	2.02	6.74	8.42	2.37	1.52	1.86	0.62
2001	5.54	6.87	2.04	6.54	8.17	2.27	1.79	1.99	1.29
2002	5.80	7.26	1.98	6.94	8.69	2.34	1.39	1.80	0.29
2003	5.35	6.69	1.83	6.49	8.21	1.98	1.14	1.27	0.80
2004	5.98	7.39	2.27	7.36	9.17	2.62	1.16	1.21	1.02
2005	6.04	7.53	2.13	7.29	9.20	2.30	1.02	1.32	0.24
2006	5.66	7.02	2.10	6.77	8.43	2.42	1.68	1.71	1.59
2007	6.03	7.45	2.32	7.21	8.96	2.64	1.48	1.56	1.26
2008	6.10	7.38	2.74	7.40	9.08	3.02	1.45	1.74	0.66
2009	6.10	7.53	2.33	7.30	9.14	2.47	1.70	1.71	1.65
2010	5.88	7.17	2.50	6.91	8.47	2.84	1.70	1.93	1.09
2011	5.96	7.45	2.04	7.22	9.10	2.28	1.49	1.98	0.20
2012	6.00	7.31	2.57	7.33	9.01	2.93	1.34	1.48	0.96
2013	6.12	7.53	2.43	7.49	9.26	2.86	1.68	2.01	0.80
2014	6.38	7.66	3.03	7.54	9.12	3.40	1.92	2.17	1.27
2015	5.89	7.14	2.60	7.08	8.67	2.93	1.39	1.66	0.67
2016	6.25	7.75	2.34	7.49	9.34	2.63	1.78	1.89	1.50

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

<sup>a</sup>

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Table 25.5  
Cancer of the Testis (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Age

	All Races, Males			White Males			Black Males		
	All	<50	50+	All	<50	50+	All	<50	50+
Year of Diagnosis:									
1975-2016	5.30	6.50	2.16	6.18	7.62	2.40	1.27	1.46	0.79
1975-1979	3.79	4.46	2.04	4.22	4.98	2.25	0.93	1.12	-
1980	4.34	5.27	1.89	4.88	5.94	2.11	-	-	-
1981	4.23	5.13	1.85	4.77	5.79	2.07	-	-	-
1982	4.40	5.23	2.25	5.01	5.99	2.44	-	-	-
1983	4.60	5.50	2.24	5.23	6.29	2.43	-	-	-
1984	4.40	5.36	1.86	5.05	6.19	2.08	-	-	-
1985	4.47	5.47	1.83	5.13	6.31	2.05	-	-	-
1986	4.81	5.82	2.17	5.56	6.76	2.39	-	-	-
1987	5.05	6.27	1.86	5.72	7.16	1.94	-	-	-
1988	4.63	5.84	1.46	5.44	6.87	1.72	-	-	-
1989	5.48	6.71	2.24	6.31	7.77	2.46	-	-	-
1990	5.09	6.27	2.02	5.99	7.40	2.30	-	-	-
1991	5.10	6.24	2.12	5.75	7.07	2.31	-	-	-
1992	5.15	6.44	1.76	6.09	7.66	1.97	-	-	-
1993	5.07	6.37	1.65	5.99	7.54	1.93	-	-	-
1994	5.49	6.77	2.12	6.30	7.83	2.30	1.23	1.54	-
1995	4.55	5.57	1.88	5.23	6.42	2.11	1.46	1.87	-
1996	5.25	6.60	1.73	6.21	7.86	1.89	-	-	-
1997	5.41	6.54	2.46	6.36	7.77	2.68	1.27	-	-
1998	5.60	7.12	1.62	6.58	8.41	1.79	1.57	2.05	-
1999	5.45	6.84	1.81	6.34	7.99	2.02	1.71	2.02	-
2000	5.74	7.17	2.02	6.74	8.42	2.37	1.52	1.86	-
2001	5.54	6.87	2.04	6.54	8.17	2.27	1.79	1.99	-
2002	5.80	7.26	1.98	6.94	8.69	2.34	1.39	1.80	-
2003	5.35	6.69	1.83	6.49	8.21	1.98	1.14	-	-
2004	5.98	7.39	2.27	7.36	9.17	2.62	1.16	-	-
2005	6.04	7.53	2.13	7.29	9.20	2.30	1.02	1.32	-
2006	5.66	7.02	2.10	6.77	8.43	2.42	1.68	1.71	-
2007	6.03	7.45	2.32	7.21	8.96	2.64	1.48	1.56	-
2008	6.10	7.38	2.73	7.40	9.07	3.02	1.45	1.74	-
2009	6.09	7.53	2.33	7.29	9.13	2.47	1.70	1.71	-
2010	5.87	7.16	2.50	6.90	8.45	2.84	1.70	1.93	-
2011	5.95	7.44	2.04	7.20	9.08	2.28	1.48	1.97	-
2012	5.99	7.29	2.57	7.31	8.99	2.92	1.33	1.48	-
2013	6.10	7.51	2.42	7.47	9.23	2.85	1.67	2.01	-
2014	6.35	7.62	3.02	7.49	9.06	3.38	1.91	2.16	-
2015	5.84	7.09	2.58	7.01	8.58	2.90	1.37	1.64	-
2016	6.17	7.64	2.31	7.36	9.18	2.59	1.74	1.85	-

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 25.6  
Cancer of the Testis (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Age

	All Races, Males			White Males			Black Males		
	All	<50	50+	All	<50	50+	All	<50	50+
Year of Death:									
1975-2016	0.32	0.31	0.32	0.35	0.35	0.34	0.16	0.14	0.23
1975-1979	0.63	0.63	0.63	0.68	0.70	0.65	0.27	0.21	0.44
1980	0.45	0.44	0.47	0.49	0.49	0.50	0.18	-	-
1981	0.37	0.38	0.36	0.40	0.41	0.36	0.23	-	-
1982	0.40	0.39	0.42	0.43	0.43	0.44	0.19	-	-
1983	0.39	0.37	0.44	0.41	0.40	0.44	0.23	0.18	-
1984	0.35	0.33	0.39	0.37	0.36	0.40	0.19	-	-
1985	0.36	0.34	0.40	0.39	0.38	0.40	0.20	-	-
1986	0.32	0.32	0.34	0.35	0.35	0.35	0.17	-	-
1987	0.34	0.35	0.32	0.37	0.38	0.33	0.19	0.15	-
1988	0.32	0.29	0.40	0.35	0.32	0.42	0.16	-	-
1989	0.32	0.31	0.33	0.34	0.34	0.33	0.23	0.19	-
1990	0.27	0.30	0.21	0.30	0.33	0.22	-	-	-
1991	0.29	0.29	0.28	0.31	0.32	0.29	0.15	-	-
1992	0.28	0.28	0.30	0.31	0.31	0.32	0.14	0.15	-
1993	0.30	0.29	0.30	0.33	0.33	0.32	0.17	0.14	-
1994	0.27	0.28	0.23	0.29	0.31	0.24	0.14	0.14	-
1995	0.24	0.24	0.23	0.26	0.27	0.25	-	-	-
1996	0.26	0.26	0.27	0.29	0.29	0.29	0.12	-	-
1997	0.24	0.24	0.25	0.26	0.26	0.27	0.16	0.18	-
1998	0.28	0.27	0.29	0.30	0.30	0.30	0.20	0.13	-
1999	0.28	0.28	0.26	0.31	0.32	0.28	0.14	0.14	-
2000	0.25	0.25	0.23	0.27	0.28	0.24	0.16	0.16	-
2001	0.24	0.24	0.25	0.26	0.27	0.25	0.16	-	-
2002	0.28	0.27	0.33	0.31	0.30	0.34	0.17	0.16	-
2003	0.25	0.24	0.28	0.27	0.27	0.29	0.18	0.12	-
2004	0.25	0.25	0.25	0.28	0.28	0.27	0.15	0.15	-
2005	0.25	0.24	0.28	0.27	0.26	0.29	0.19	0.18	-
2006	0.25	0.24	0.27	0.27	0.26	0.30	0.13	0.15	-
2007	0.22	0.22	0.24	0.25	0.25	0.25	0.12	-	-
2008	0.24	0.23	0.29	0.26	0.25	0.31	0.14	0.12	-
2009	0.25	0.23	0.30	0.29	0.27	0.34	-	-	-
2010	0.26	0.26	0.27	0.30	0.31	0.29	0.14	-	-
2011	0.25	0.23	0.31	0.29	0.27	0.34	0.12	-	-
2012	0.25	0.25	0.26	0.28	0.28	0.28	0.15	0.13	-
2013	0.24	0.23	0.28	0.28	0.27	0.31	-	-	-
2014	0.26	0.25	0.30	0.29	0.28	0.32	0.15	0.11	-
2015	0.23	0.21	0.29	0.27	0.25	0.32	0.12	-	-
2016	0.27	0.25	0.32	0.31	0.29	0.34	0.13	-	-

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 26.4  
Cancer of the Thyroid (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	4.93	3.07	6.69	4.82	2.93	6.62	3.27	1.64	4.63
1980	4.33	2.39	6.15	4.30	2.28	6.20	2.37	1.11	3.43
1981	4.42	2.52	6.24	4.39	2.48	6.28	2.39	1.04	3.44
1982	4.63	3.00	6.15	4.53	2.87	6.09	3.29	2.02	4.34
1983	4.71	2.80	6.50	4.74	2.61	6.73	3.02	2.15	3.77
1984	4.85	2.65	6.94	4.73	2.58	6.81	3.02	1.73	4.08
1985	5.13	3.10	7.09	5.09	3.10	7.04	2.86	1.89	3.66
1986	5.32	3.07	7.49	5.25	3.11	7.35	3.35	1.19	5.09
1987	5.04	2.81	7.12	5.02	2.86	7.06	2.82	0.97	4.30
1988	4.93	2.94	6.88	4.89	3.00	6.78	2.53	1.80	3.21
1989	5.37	2.99	7.66	5.46	3.22	7.69	2.63	0.62	4.14
1990	5.49	2.92	7.96	5.55	2.97	8.08	3.76	2.28	4.91
1991	5.49	3.19	7.69	5.70	3.30	8.04	3.22	2.07	4.20
1992	5.88	3.52	8.13	5.88	3.52	8.17	4.23	3.09	5.18
1993	5.65	3.59	7.64	5.73	3.68	7.76	3.38	2.07	4.56
1994	6.09	3.39	8.75	6.24	3.44	9.03	3.75	1.72	5.40
1995	6.23	3.37	9.02	6.42	3.59	9.24	3.08	1.20	4.61
1996	6.53	3.48	9.52	6.72	3.62	9.82	3.86	1.79	5.73
1997	6.79	3.66	9.81	7.07	3.78	10.35	3.98	2.44	5.24
1998	6.99	3.72	10.12	7.20	3.95	10.41	4.00	1.50	6.05
1999	7.35	3.87	10.68	7.56	4.08	10.98	4.59	1.60	7.01
2000	7.62	4.04	11.12	8.06	4.38	11.79	4.60	2.18	6.61
2001	8.31	4.34	12.18	8.67	4.60	12.78	4.93	2.52	6.88
2002	9.24	4.95	13.43	9.76	5.27	14.29	5.48	2.77	7.68
2003	9.67	4.72	14.48	10.38	5.07	15.70	5.30	2.82	7.51
2004	10.15	5.24	14.94	10.82	5.55	16.13	6.37	3.33	8.90
2005	10.98	5.82	15.99	11.96	6.50	17.43	5.92	2.76	8.68
2006	11.34	5.86	16.64	12.17	6.37	18.01	6.64	3.15	9.47
2007	12.42	6.12	18.53	13.28	6.56	20.05	7.26	3.22	10.60
2008	13.25	6.58	19.73	14.25	7.07	21.48	7.11	4.49	9.56
2009	14.50	7.09	21.64	15.59	7.74	23.41	8.67	3.39	13.21
2010	14.00	6.67	21.09	14.84	7.30	22.43	8.74	3.49	13.08
2011	14.84	7.42	22.03	15.79	8.00	23.59	9.21	3.81	13.64
2012	15.05	8.08	21.88	15.91	8.70	23.24	9.75	4.41	14.24
2013	15.23	7.81	22.47	16.44	8.46	24.54	9.19	4.02	13.62
2014	15.21	7.76	22.49	16.32	8.32	24.42	9.76	4.37	14.37
2015	15.16	7.75	22.42	16.35	8.58	24.30	9.09	3.66	13.63
2016	14.63	7.62	21.51	15.50	8.13	23.03	9.05	4.08	13.29

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.



Table 26.5  
Cancer of the Thyroid (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	8.88	4.75	12.86	9.08	4.93	13.20	5.63	2.66	8.11
1975-1979	4.93	3.07	6.69	4.82	2.93	6.62	3.27	1.64	4.63
1980	4.33	2.39	6.15	4.30	2.28	6.20	2.37	-	3.43
1981	4.42	2.52	6.24	4.39	2.48	6.28	2.39	-	3.44
1982	4.63	3.00	6.15	4.53	2.87	6.09	3.29	-	4.34
1983	4.71	2.80	6.50	4.74	2.61	6.73	3.02	2.15	3.77
1984	4.85	2.65	6.94	4.73	2.58	6.81	3.02	-	4.08
1985	5.13	3.10	7.09	5.09	3.10	7.04	2.86	-	3.66
1986	5.32	3.07	7.49	5.25	3.11	7.35	3.35	-	5.09
1987	5.04	2.81	7.12	5.02	2.86	7.06	2.82	-	4.30
1988	4.93	2.94	6.88	4.89	3.00	6.78	2.53	-	3.21
1989	5.37	2.99	7.66	5.46	3.22	7.69	2.63	-	4.14
1990	5.49	2.92	7.96	5.55	2.97	8.08	3.76	2.28	4.91
1991	5.49	3.19	7.69	5.70	3.30	8.04	3.22	2.07	4.20
1992	5.88	3.52	8.13	5.88	3.52	8.17	4.23	3.09	5.18
1993	5.65	3.59	7.64	5.73	3.68	7.76	3.38	2.07	4.56
1994	6.09	3.39	8.75	6.24	3.44	9.03	3.75	1.72	5.40
1995	6.23	3.37	9.02	6.42	3.59	9.24	3.08	-	4.61
1996	6.53	3.48	9.52	6.72	3.62	9.82	3.86	1.79	5.73
1997	6.79	3.66	9.81	7.07	3.78	10.35	3.98	2.44	5.24
1998	6.99	3.72	10.12	7.20	3.95	10.41	4.00	1.50	6.05
1999	7.35	3.87	10.68	7.56	4.08	10.98	4.59	1.60	7.01
2000	7.62	4.04	11.12	8.06	4.38	11.79	4.60	2.18	6.61
2001	8.31	4.34	12.18	8.67	4.60	12.78	4.93	2.52	6.88
2002	9.24	4.95	13.43	9.76	5.27	14.29	5.48	2.77	7.68
2003	9.67	4.72	14.48	10.38	5.07	15.70	5.30	2.82	7.51
2004	10.15	5.24	14.94	10.82	5.55	16.13	6.37	3.33	8.90
2005	10.98	5.82	15.99	11.96	6.50	17.43	5.92	2.76	8.68
2006	11.34	5.86	16.64	12.17	6.37	18.01	6.64	3.15	9.47
2007	12.42	6.12	18.53	13.28	6.56	20.05	7.26	3.22	10.60
2008	13.24	6.57	19.71	14.24	7.06	21.46	7.10	4.48	9.54
2009	14.48	7.08	21.61	15.56	7.73	23.36	8.63	3.38	13.15
2010	13.96	6.65	21.04	14.79	7.28	22.36	8.68	3.46	12.99
2011	14.80	7.40	21.96	15.73	7.97	23.51	9.12	3.77	13.51
2012	14.99	8.05	21.80	15.83	8.66	23.13	9.63	4.36	14.07
2013	15.17	7.78	22.37	16.35	8.41	24.40	9.07	3.96	13.46
2014	15.12	7.71	22.35	16.19	8.25	24.23	9.61	4.30	14.15
2015	15.05	7.70	22.26	16.19	8.49	24.07	8.89	3.58	13.34
2016	14.47	7.54	21.28	15.25	8.01	22.66	8.80	3.97	12.93

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 26.6  
Cancer of the Thyroid (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	0.48	0.45	0.50	0.48	0.46	0.48	0.48	0.35	0.55
1975-1979	0.55	0.44	0.61	0.55	0.45	0.61	0.52	0.38	0.62
1980	0.48	0.38	0.53	0.49	0.40	0.54	0.42	0.29	0.51
1981	0.50	0.42	0.55	0.50	0.43	0.54	0.48	0.26	0.62
1982	0.48	0.37	0.53	0.47	0.37	0.53	0.48	0.38	0.54
1983	0.44	0.34	0.50	0.45	0.35	0.50	0.41	0.28	0.49
1984	0.47	0.38	0.52	0.47	0.39	0.51	0.47	-	0.64
1985	0.45	0.39	0.48	0.44	0.39	0.46	0.49	0.34	0.58
1986	0.46	0.39	0.49	0.45	0.39	0.49	0.48	0.34	0.57
1987	0.45	0.40	0.48	0.45	0.41	0.47	0.48	0.33	0.58
1988	0.44	0.41	0.45	0.44	0.42	0.44	0.44	0.33	0.50
1989	0.44	0.41	0.44	0.43	0.41	0.43	0.51	0.40	0.56
1990	0.44	0.37	0.48	0.44	0.38	0.47	0.45	0.30	0.54
1991	0.43	0.38	0.46	0.42	0.39	0.43	0.50	0.37	0.58
1992	0.46	0.38	0.50	0.46	0.39	0.48	0.41	0.30	0.48
1993	0.46	0.39	0.50	0.46	0.40	0.48	0.46	0.26	0.58
1994	0.42	0.38	0.44	0.42	0.38	0.44	0.37	0.30	0.40
1995	0.44	0.41	0.44	0.44	0.43	0.44	0.40	0.27	0.46
1996	0.45	0.42	0.47	0.45	0.43	0.46	0.44	0.33	0.49
1997	0.46	0.45	0.46	0.45	0.45	0.44	0.49	0.37	0.55
1998	0.44	0.38	0.47	0.43	0.39	0.45	0.43	0.27	0.53
1999	0.45	0.44	0.45	0.45	0.45	0.44	0.44	0.39	0.47
2000	0.48	0.47	0.48	0.47	0.48	0.45	0.51	0.34	0.59
2001	0.48	0.47	0.48	0.47	0.48	0.46	0.51	0.41	0.58
2002	0.48	0.45	0.48	0.48	0.46	0.48	0.48	0.39	0.52
2003	0.45	0.43	0.46	0.46	0.45	0.46	0.38	0.29	0.44
2004	0.48	0.47	0.47	0.48	0.48	0.47	0.45	0.40	0.48
2005	0.48	0.48	0.49	0.48	0.50	0.46	0.51	0.30	0.64
2006	0.49	0.46	0.51	0.50	0.48	0.50	0.47	0.28	0.60
2007	0.50	0.51	0.48	0.48	0.51	0.46	0.50	0.40	0.56
2008	0.52	0.50	0.52	0.52	0.52	0.51	0.46	0.40	0.51
2009	0.52	0.51	0.52	0.51	0.52	0.50	0.57	0.41	0.66
2010	0.51	0.50	0.51	0.50	0.51	0.48	0.49	0.45	0.53
2011	0.51	0.52	0.49	0.51	0.54	0.48	0.44	0.32	0.51
2012	0.48	0.51	0.46	0.48	0.52	0.45	0.49	0.41	0.54
2013	0.52	0.53	0.50	0.51	0.54	0.48	0.52	0.39	0.61
2014	0.50	0.49	0.50	0.50	0.52	0.48	0.56	0.38	0.66
2015	0.51	0.54	0.48	0.50	0.55	0.47	0.49	0.41	0.53
2016	0.54	0.55	0.52	0.54	0.56	0.51	0.48	0.42	0.51

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 27.4  
Cancer of the Urinary Bladder (Invasive and *In Situ*)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	19.60	34.59	9.20	20.68	36.97	9.53	11.69	18.40	6.96
1980	20.42	37.14	8.92	21.53	39.81	9.07	13.27	18.23	9.87
1981	20.69	36.36	9.73	21.95	38.80	10.29	11.60	20.72	5.48
1982	20.08	35.79	9.52	21.37	38.30	10.15	12.19	21.77	5.60
1983	20.04	35.99	9.01	21.32	38.71	9.41	12.17	18.70	7.57
1984	20.85	37.72	9.17	22.35	40.89	9.63	11.49	18.93	6.24
1985	20.67	36.37	9.86	22.12	39.30	10.38	13.06	20.33	8.14
1986	21.02	37.92	9.42	22.45	40.83	9.95	12.94	22.16	6.63
1987	21.65	39.51	9.24	23.16	42.79	9.58	13.22	21.78	7.41
1988	20.85	38.09	8.99	22.71	41.83	9.68	11.29	17.99	6.45
1989	21.03	37.42	9.64	22.73	40.91	10.18	11.37	17.61	7.16
1990	21.08	37.49	9.64	22.63	40.79	10.02	12.69	18.59	8.75
1991	20.92	37.64	9.32	22.73	41.30	9.88	12.85	19.53	8.50
1992	21.25	37.52	9.81	22.96	40.73	10.53	12.54	20.95	6.89
1993	21.26	37.68	9.72	22.86	40.57	10.39	14.43	25.00	7.85
1994	20.81	36.88	9.46	22.64	40.29	10.20	12.34	20.30	6.89
1995	20.64	36.24	9.55	22.46	39.52	10.29	11.85	18.23	7.39
1996	20.83	36.74	9.52	22.69	40.17	10.24	12.58	20.64	7.28
1997	21.11	37.21	9.58	23.01	40.76	10.22	12.76	20.15	8.21
1998	21.63	38.60	9.44	23.65	42.31	10.15	12.03	20.54	6.52
1999	21.78	38.27	9.95	23.70	41.82	10.56	14.61	22.56	9.55
2000	21.86	38.82	9.57	23.97	42.57	10.37	13.21	20.33	8.62
2001	21.80	38.63	9.66	24.12	42.63	10.63	11.94	18.97	7.40
2002	21.29	37.21	9.71	23.35	40.73	10.56	12.78	18.26	9.02
2003	21.62	37.86	9.79	23.84	41.64	10.65	12.97	21.26	7.48
2004	21.56	38.03	9.56	23.70	41.71	10.37	13.80	22.84	8.30
2005	22.01	38.91	9.62	24.14	42.72	10.30	14.05	23.13	8.11
2006	21.42	37.98	9.23	23.64	41.90	9.96	11.89	18.26	7.68
2007	21.94	39.29	8.99	24.24	43.19	9.81	13.16	21.41	7.87
2008	21.45	37.73	9.37	23.62	41.39	10.20	12.80	22.09	6.71
2009	20.97	37.17	8.82	22.98	40.54	9.52	13.32	23.12	7.02
2010	21.45	37.68	9.23	23.97	41.92	10.09	12.51	20.92	6.99
2011	20.49	35.93	8.79	22.96	39.98	9.73	12.77	21.63	7.12
2012	20.86	36.58	9.00	23.14	40.17	10.01	13.10	23.78	6.04
2013	20.21	35.45	8.57	22.45	39.17	9.31	14.63	23.74	8.71
2014	20.52	35.55	9.01	22.74	39.38	9.65	14.36	22.85	8.67
2015	20.18	35.47	8.34	22.55	39.32	9.18	12.05	20.39	6.72
2016	19.79	34.29	8.47	22.21	38.28	9.26	12.93	21.62	7.25

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

<sup>a</sup>

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Table 27.5  
Cancer of the Urinary Bladder (Invasive and *In Situ*)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	20.85	37.00	9.24	22.69	40.41	9.89	12.75	20.77	7.47
1975-1979	19.60	34.59	9.20	20.68	36.97	9.53	11.69	18.40	6.96
1980	20.42	37.14	8.92	21.53	39.81	9.07	13.27	18.23	9.87
1981	20.69	36.36	9.73	21.95	38.80	10.29	11.60	20.72	5.48
1982	20.08	35.79	9.52	21.37	38.30	10.15	12.19	21.77	5.60
1983	20.04	35.99	9.01	21.32	38.71	9.41	12.17	18.70	7.57
1984	20.85	37.72	9.17	22.35	40.89	9.63	11.49	18.93	6.24
1985	20.67	36.37	9.86	22.12	39.30	10.38	13.06	20.33	8.14
1986	21.02	37.92	9.42	22.45	40.83	9.95	12.94	22.16	6.63
1987	21.65	39.51	9.24	23.16	42.79	9.58	13.22	21.78	7.41
1988	20.85	38.09	8.99	22.71	41.83	9.68	11.29	17.99	6.45
1989	21.03	37.42	9.64	22.73	40.91	10.18	11.37	17.61	7.16
1990	21.08	37.49	9.64	22.63	40.79	10.02	12.69	18.59	8.75
1991	20.92	37.64	9.32	22.73	41.30	9.88	12.85	19.53	8.50
1992	21.25	37.52	9.81	22.96	40.73	10.53	12.54	20.95	6.89
1993	21.26	37.68	9.72	22.86	40.57	10.39	14.43	25.00	7.85
1994	20.81	36.88	9.46	22.64	40.29	10.20	12.34	20.30	6.89
1995	20.64	36.24	9.55	22.46	39.52	10.29	11.85	18.23	7.39
1996	20.83	36.74	9.52	22.69	40.17	10.24	12.58	20.64	7.28
1997	21.11	37.21	9.58	23.01	40.76	10.22	12.76	20.15	8.21
1998	21.63	38.60	9.44	23.65	42.31	10.15	12.03	20.54	6.52
1999	21.78	38.27	9.95	23.70	41.82	10.56	14.61	22.56	9.55
2000	21.86	38.82	9.57	23.97	42.57	10.37	13.21	20.33	8.62
2001	21.80	38.63	9.66	24.12	42.63	10.63	11.94	18.97	7.40
2002	21.29	37.21	9.71	23.35	40.73	10.56	12.78	18.26	9.02
2003	21.62	37.86	9.79	23.84	41.64	10.65	12.97	21.26	7.48
2004	21.56	38.03	9.56	23.70	41.71	10.37	13.80	22.84	8.30
2005	22.01	38.91	9.62	24.14	42.72	10.30	14.05	23.13	8.11
2006	21.42	37.98	9.23	23.64	41.90	9.96	11.89	18.26	7.68
2007	21.94	39.29	8.99	24.24	43.19	9.81	13.16	21.41	7.87
2008	21.43	37.69	9.37	23.59	41.33	10.19	12.77	22.03	6.69
2009	20.93	37.10	8.81	22.92	40.43	9.50	13.24	22.99	6.98
2010	21.40	37.58	9.21	23.86	41.74	10.05	12.41	20.75	6.94
2011	20.42	35.80	8.76	22.83	39.76	9.68	12.63	21.38	7.04
2012	20.76	36.42	8.96	22.97	39.89	9.94	12.93	23.47	5.97
2013	20.10	35.26	8.53	22.26	38.84	9.23	14.43	23.41	8.58
2014	20.35	35.26	8.93	22.46	38.90	9.54	14.07	22.39	8.50
2015	19.92	35.02	8.23	22.15	38.62	9.02	11.75	19.88	6.55
2016	19.35	33.54	8.28	21.56	37.15	8.99	12.48	20.86	7.00

<sup>a</sup> Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 27.6  
Cancer of the Urinary Bladder (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.56	8.01	2.35	4.69	8.35	2.33	4.06	5.99	2.91
1975-1979	5.46	9.62	2.82	5.52	9.90	2.76	5.08	7.42	3.48
1980	5.17	9.16	2.73	5.24	9.51	2.66	4.72	6.21	3.71
1981	5.07	9.02	2.66	5.13	9.28	2.61	4.89	7.20	3.40
1982	4.99	8.95	2.58	5.04	9.23	2.50	4.86	6.83	3.56
1983	4.88	8.79	2.54	4.93	9.04	2.50	4.72	7.17	3.19
1984	4.74	8.49	2.49	4.78	8.73	2.43	4.74	6.89	3.39
1985	4.67	8.43	2.44	4.73	8.67	2.40	4.48	6.86	3.02
1986	4.53	8.10	2.41	4.60	8.41	2.34	4.25	5.83	3.29
1987	4.41	7.87	2.34	4.46	8.09	2.28	4.37	6.50	3.11
1988	4.41	7.76	2.41	4.47	8.02	2.34	4.30	5.89	3.33
1989	4.48	7.99	2.37	4.52	8.18	2.31	4.61	7.02	3.20
1990	4.49	7.97	2.42	4.55	8.22	2.37	4.44	6.44	3.24
1991	4.42	7.89	2.34	4.48	8.14	2.28	4.40	6.58	3.12
1992	4.46	7.89	2.43	4.52	8.11	2.38	4.35	6.66	3.08
1993	4.47	8.05	2.31	4.55	8.32	2.27	4.17	6.36	2.93
1994	4.47	7.86	2.42	4.54	8.13	2.37	4.34	6.36	3.19
1995	4.35	7.78	2.28	4.45	8.08	2.23	4.05	5.77	3.09
1996	4.41	7.79	2.37	4.51	8.08	2.33	4.16	5.89	3.14
1997	4.39	7.59	2.42	4.50	7.88	2.40	4.00	5.88	2.98
1998	4.38	7.71	2.32	4.49	8.02	2.29	3.95	5.58	3.03
1999	4.36	7.66	2.28	4.47	7.95	2.24	4.01	5.84	2.96
2000	4.32	7.60	2.27	4.48	7.94	2.27	3.74	5.68	2.69
2001	4.35	7.62	2.27	4.48	7.97	2.24	3.74	5.17	2.93
2002	4.43	7.61	2.39	4.56	7.94	2.36	3.99	5.67	3.08
2003	4.30	7.49	2.23	4.45	7.82	2.22	3.76	5.60	2.72
2004	4.42	7.73	2.28	4.60	8.13	2.28	3.69	5.20	2.82
2005	4.42	7.73	2.25	4.58	8.07	2.26	3.78	6.00	2.60
2006	4.41	7.72	2.22	4.57	8.09	2.21	3.87	5.79	2.81
2007	4.44	7.72	2.25	4.62	8.10	2.25	3.84	5.59	2.82
2008	4.41	7.62	2.25	4.61	8.04	2.28	3.38	4.83	2.52
2009	4.37	7.67	2.16	4.57	8.05	2.18	3.60	5.56	2.46
2010	4.43	7.72	2.20	4.63	8.12	2.22	3.66	5.62	2.53
2011	4.42	7.63	2.22	4.64	8.06	2.24	3.59	5.19	2.63
2012	4.38	7.63	2.13	4.61	8.06	2.18	3.46	5.27	2.36
2013	4.43	7.69	2.14	4.66	8.14	2.17	3.52	5.40	2.39
2014	4.34	7.51	2.12	4.55	7.93	2.14	3.63	5.57	2.46
2015	4.36	7.49	2.17	4.62	7.95	2.23	3.37	5.24	2.24
2016	4.37	7.53	2.14	4.62	8.00	2.17	3.50	5.30	2.46

<sup>a</sup> Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).  
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.