

Table XV-1  
LUNG AND BRONCHUS CANCER (Invasive)  
 TRENDS IN SEER INCIDENCE AND U.S. MORTALITY, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>INCIDENCE TRENDS (expressed in percents)§:</u>									
<u>1973-96</u>									
All Ages									
Percent Change (PC)	27.8	-2.5	123.0	30.1	-4.0	134.5	21.5	4.8	110.6
Est. Annual PC (EAPC)	1.2★	-0.1	3.7★	1.3★	-0.1	3.9★	1.2★	0.4	3.8★
Under 65									
Percent Change (PC)	-1.9	-21.9	50.9	-1.4	-24.4	56.9	-0.2	-12.7	53.9
Est. Annual PC (EAPC)	-0.1	-1.1★	1.8★	0.0	-1.2★	2.0★	0.1	-0.6	2.3★
65 and over									
Percent Change (PC)	58.1	12.9	234.9	61.4	11.4	255.7	49.9	24.6	219.3
Est. Annual PC (EAPC)	2.2★	0.6★	5.8★	2.3★	0.6★	6.0★	2.3★	1.3★	6.0★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	8.6	5.1	19.0	8.5	4.9	19.1	9.5	6.2	23.5
Est. Annual PC (EAPC)	2.9★	1.7★	6.3★	2.8★	1.6★	6.1★	3.3	2.2	8.2
<u>1992-96 - ALL AGES</u>									
Percent Change (PC)	-6.1	-10.1	-0.7	-5.5	-10.0	0.1	-8.7	-10.6	-4.8
Est. Annual PC (EAPC)	-2.2★◆	-3.6★◆	-0.3◆	-2.0★◆	-3.5★◆	-0.1◆	-3.3★◆	-4.4★◆	-1.3◆
<u>MORTALITY TRENDS (expressed in percents)*:</u>									
<u>1973-96</u>									
All Ages									
Percent Change (PC)	38.6	8.9	148.3	39.8	8.0	152.9	41.3	24.6	140.4
Est. Annual PC (EAPC)	1.6★	0.5★	4.3★	1.6★	0.4★	4.4★	1.7★	1.1★	4.2★
Under 65									
Percent Change (PC)	2.5	-17.6	64.7	3.8	-18.0	68.7	1.6	-10.7	59.9
Est. Annual PC (EAPC)	0.2	-0.7★	2.3★	0.3	-0.7★	2.4★	0.2	-0.5★	2.3★
65 and over									
Percent Change (PC)	74.5	30.3	265.5	74.0	27.8	268.7	99.1	70.9	285.9
Est. Annual PC (EAPC)	2.6★	1.2★	6.3★	2.6★	1.1★	6.3★	3.4★	2.7★	6.6★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	8.8	5.9	20.2	8.6	5.5	20.1	11.3	10.4	20.8
Est. Annual PC (EAPC)	2.8★	1.9★	6.3★	2.8★	1.8★	6.3★	3.5★	3.2★	6.5★
<u>1992-96 - ALL AGES</u>									
Percent Change (PC)	-1.9	-5.3	2.9	-1.6	-5.0	3.2	-3.8	-6.5	1.8
Est. Annual PC (EAPC)	-0.6★◆	-1.7★◆	0.9★◆	-0.5★◆	-1.6★◆	1.1★◆	-1.3★◆	-2.1★◆	0.4◆

The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.  
 SEER Program.  
 NCHS public use tape.  
 The EAPC is significantly different from zero (p<.05).  
 The EAPC for 1992-96 is significantly different from the EAPC for 1975-79 (p<.05).  
 The EAPC for 1992-96 is significantly different from the EAPC for 1975-79 (p<.10).  
 † Statistic could not be calculated.

Table XV-2  
SMALL CELL LUNG AND BRONCHUS CANCER (Invasive) AND NON-SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

TRENDS IN SEER INCIDENCE, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>INCIDENCE TRENDS FOR SMALL CELL (expressed in percents)§:</u>									
<u>1973-96</u>									
All Ages									
Percent Change (PC)	57.8	21.0	149.1	64.9	23.3	164.3	26.7	3.1	117.0
Est. Annual PC (EAPC)	2.0	0.6	4.3	2.2	0.6	4.6	1.6	0.6	3.8
Under 65									
Percent Change (PC)	14.5	-6.4	58.3	21.2	-3.1	71.0	-14.3	-23.1	12.0
Est. Annual PC (EAPC)	0.5	-0.6	2.2	0.7	-0.5	2.5	0.0	-0.7	1.5
65 and over									
Percent Change (PC)	120.0	50.6	359.8	127.5	51.7	377.7	91.2	33.8	521.5
Est. Annual PC (EAPC)	3.5	1.6	7.2	3.7	1.6	7.4	3.3	1.9	7.5
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	26.3	22.2	35.3	27.5	22.5	38.2	12.6	23.9	-9.5
Est. Annual PC (EAPC)	7.6	6.6	9.9	7.8	6.6	10.4	5.5	7.9	0.3
<u>1992-96 - ALL AGES</u>									
Percent Change (PC)	-7.1	-8.2	-6.2	-6.2	-7.8	-5.1	-11.9	-9.7	-13.5
Est. Annual PC (EAPC)	-2.6	-3.1	-2.1	-2.3	-3.0	-1.7	-4.4	-4.0	-4.5
<u>INCIDENCE TRENDS FOR NON-SMALL CELL (expressed in percents)§:</u>									
<u>1973-96</u>									
All Ages									
Percent Change (PC)	23.6	-5.5	118.5	25.1	-7.6	129.1	20.9	5.0	109.7
Est. Annual PC (EAPC)	1.1	-0.2	3.6	1.1	-0.2	3.8	1.1	0.3	3.8
Under 65									
Percent Change (PC)	-4.7	-24.3	49.3	-5.3	-27.8	53.9	1.6	-11.5	61.3
Est. Annual PC (EAPC)	-0.2	-1.2	1.8	-0.2	-1.3	1.8	0.2	-0.6	2.4
65 and over									
Percent Change (PC)	51.0	8.8	218.9	53.7	7.0	239.1	45.7	23.7	195.0
Est. Annual PC (EAPC)	2.0	0.5	5.5	2.1	0.4	5.8	2.2	1.2	5.9
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	5.9	2.7	16.0	5.5	2.3	15.5	9.1	4.5	30.0
Est. Annual PC (EAPC)	2.1	1.0	5.5	1.9	0.8	5.3	3.1	1.7	9.5
<u>1992-96 - ALL AGES</u>									
Percent Change (PC)	-5.9	-10.4	0.5	-5.3	-10.4	1.2	-8.3	-10.7	-3.4
Est. Annual PC (EAPC)	-2.1	-3.7	0.0	-1.9	-3.6	0.2	-3.2	-4.5	-0.8

§ The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.  
 SEER Program.

★ The EAPC is significantly different from zero ( $p < .05$ ).

◆ The EAPC for 1992-96 is significantly different from the EAPC for 1975-79 ( $p < .05$ ).

◇ The EAPC for 1992-96 is significantly different from the EAPC for 1975-79 ( $p < .10$ ).

- Statistic could not be calculated.

Table XV-3  
LUNG AND BRONCHUS CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	42.4	73.2	18.2	41.6	72.4	17.8	58.7	104.6	20.9
1974	43.9	74.5	19.9	43.4	74.2	19.8	58.9	102.0	21.7
1975	45.3	76.2	21.5	45.1	75.9	21.8	56.5	101.0	20.6
1976	47.8	79.3	23.8	47.2	78.4	23.8	62.6	110.9	25.2
1977	48.9	80.7	24.7	48.3	80.0	24.6	64.2	108.7	28.9
1978	50.2	82.0	26.2	49.7	81.1	26.5	65.0	113.5	27.1
1979	50.9	81.4	27.8	50.4	80.7	27.9	65.4	111.6	29.4
1980	52.3	84.4	28.1	51.2	82.2	28.2	76.0	131.0	33.8
1981	53.9	84.5	30.9	53.4	83.3	31.3	73.3	126.1	33.1
1982	54.9	85.1	32.3	54.6	83.8	33.3	71.1	123.5	31.4
1983	55.0	84.1	33.3	54.5	82.2	34.4	75.9	130.9	34.7
1984	56.8	86.5	34.6	55.7	84.2	34.8	82.7	140.3	39.7
1985	56.1	83.8	35.3	55.5	82.0	35.9	79.0	131.3	40.2
1986	56.9	83.6	37.0	56.4	81.9	37.7	81.3	134.0	43.0
1987	58.5	85.3	38.6	58.6	84.3	39.8	74.4	124.1	38.3
1988	58.7	83.4	40.4	58.9	82.3	41.6	77.8	125.9	42.8
1989	58.0	82.2	40.1	58.0	81.1	41.1	78.1	123.1	45.7
1990	58.6	81.7	41.5	58.8	80.9	42.6	75.3	115.9	46.3
1991	59.6	81.8	43.2	59.3	80.3	44.1	81.4	125.2	49.6
1992	59.6	81.7	43.2	59.1	79.3	44.3	81.9	127.6	48.7
1993	57.9	78.7	42.3	57.9	77.1	43.8	74.7	114.8	45.7
1994	57.1	75.6	43.4	57.2	74.5	44.4	75.9	112.8	49.0
1995	56.2	74.1	42.7	56.4	72.3	44.5	73.1	115.2	42.7
1996	54.2	70.0	42.3	54.2	68.4	43.7	69.9	101.4	47.2
<u>AGE-ADJUSTED RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	57.0	75.9	42.8	56.9	74.3	44.1	75.0	114.2	46.6
Under 65	25.0	30.3	20.2	24.5	28.4	20.7	39.3	56.3	25.4
65 and over	348.6	492.8	248.4	353.4	492.5	257.8	400.5	642.3	239.8
All ages (world std.) <sup>§</sup>	44.7	58.5	33.9	44.5	56.9	34.9	60.5	90.7	38.1
<u>AGE-SPECIFIC RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
15-19	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
20-24	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.9	0.2
25-29	0.5	0.6	0.4	0.5	0.6	0.4	0.8	0.7	0.8
30-34	1.8	2.0	1.6	1.6	1.9	1.4	2.9	3.6	2.3
35-39	5.0	5.5	4.6	4.5	4.5	4.4	10.5	14.0	7.5
40-44	12.2	14.1	10.3	10.6	11.6	9.6	25.1	35.4	16.2
45-49	31.7	35.0	28.4	29.7	31.6	27.7	56.6	69.8	45.1
50-54	71.9	83.4	60.7	67.7	74.8	60.7	130.5	183.6	85.2
55-59	132.4	160.1	106.4	130.4	150.2	111.3	204.4	311.6	118.5
60-64	214.4	269.7	164.7	215.7	263.5	171.5	296.6	427.1	193.7
65-69	316.3	416.7	232.6	321.3	414.0	242.9	390.7	569.9	252.1
70-74	378.1	514.5	272.6	382.6	508.0	285.3	457.8	747.1	256.0
75-79	400.5	573.9	280.8	409.1	580.6	291.4	408.0	678.4	236.4
80-84	359.4	561.6	244.1	363.9	568.7	249.7	374.1	674.7	213.9
85+	243.4	456.4	158.4	239.3	460.3	155.0	260.6	460.0	172.8

§ SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.  
 § SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XV-4  
SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	5.1	8.1	2.6	5.1	8.1	2.7	6.9	12.0	2.8
1974	5.6	8.7	3.0	5.7	9.0	3.1	5.1	8.2	2.5
1975	6.0	9.1	3.5	6.2	9.5	3.6	5.3	7.9	3.2
1976	6.3	10.0	3.5	6.4	10.1	3.6	7.3	11.1	4.4
1977	6.9	10.8	3.9	7.0	11.2	3.9	7.3	9.9	5.3
1978	7.8	11.8	4.6	8.0	12.0	4.9	7.2	12.8	2.8
1979	7.8	11.5	4.9	8.1	12.0	5.1	7.0	10.8	4.0
1980	8.1	12.5	4.7	8.3	12.7	5.0	8.9	15.3	4.1
1981	8.7	12.8	5.6	9.0	13.0	5.9	8.6	14.5	4.2
1982	9.2	12.9	6.5	9.6	13.2	6.9	8.8	14.3	4.5
1983	9.2	13.0	6.4	9.6	13.1	6.9	8.2	13.3	4.5
1984	9.6	13.3	6.7	9.9	13.6	7.0	9.7	14.0	6.4
1985	9.3	13.1	6.4	9.6	13.4	6.7	10.0	15.7	5.7
1986	9.9	13.6	7.1	10.2	13.9	7.4	11.3	16.0	7.8
1987	9.5	12.3	7.5	10.0	12.6	8.1	8.7	12.8	5.7
1988	10.2	13.4	7.7	10.6	13.6	8.4	9.5	15.8	5.0
1989	10.0	12.8	7.8	10.4	13.1	8.3	10.5	14.7	7.7
1990	9.4	11.9	7.5	9.9	12.4	8.1	8.3	12.0	5.6
1991	10.0	12.1	8.4	10.4	12.4	8.9	10.9	13.8	8.9
1992	9.3	11.6	7.5	9.7	11.9	8.0	8.9	11.5	7.0
1993	8.8	10.7	7.4	9.2	10.9	8.0	8.5	11.6	6.2
1994	8.6	10.1	7.5	9.1	10.3	8.1	8.7	11.7	6.6
1995	8.5	10.4	7.1	9.0	10.7	7.7	7.9	11.4	5.5
1996	8.3	10.0	6.9	8.8	10.4	7.5	7.3	9.5	5.9
<u>AGE-ADJUSTED RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	8.7	10.5	7.3	9.2	10.9	7.9	8.3	11.1	6.2
Under 65	4.1	4.7	3.7	4.4	4.8	4.0	4.0	5.0	3.2
65 and over	50.2	64.3	40.3	52.6	66.1	43.1	46.9	66.4	34.0
All ages (world std.) <sup>8</sup>	6.9	8.3	5.9	7.3	8.5	6.3	6.6	8.7	5.1
<u>AGE-SPECIFIC RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-34	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.1
35-39	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.1
40-44	1.6	1.7	1.6	1.7	1.7	1.7	1.7	2.0	1.4
45-49	4.8	5.4	4.2	5.1	5.6	4.6	4.4	5.2	3.8
50-54	11.9	12.9	10.9	12.3	13.1	11.5	12.9	16.0	10.3
55-59	22.8	26.0	19.8	24.2	26.6	21.9	21.7	30.1	15.0
60-64	36.6	41.6	32.1	39.2	43.6	35.2	33.5	39.7	28.6
65-69	51.3	61.6	42.7	54.3	63.9	46.2	47.9	62.5	36.6
70-74	57.7	71.7	46.9	60.2	73.1	50.2	55.9	79.0	39.8
75-79	55.5	72.7	43.7	57.7	75.0	45.8	52.9	72.6	40.4
80-84	42.0	60.3	31.5	43.4	61.5	33.4	36.0	66.5	19.7
85+	17.2	34.6	10.2	17.5	35.4	10.7	11.3	23.5	5.9

<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XV-5  
 NON-SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)  
 SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	37.3	65.0	15.6	36.5	64.3	15.1	51.8	92.6	18.2
1974	38.4	65.8	16.9	37.7	65.1	16.8	53.8	93.9	19.2
1975	39.3	67.0	18.0	38.9	66.4	18.2	51.2	93.1	17.4
1976	41.5	69.4	20.3	40.8	68.3	20.2	55.3	99.7	20.8
1977	42.0	69.9	20.8	41.2	68.8	20.7	56.9	98.8	23.7
1978	42.4	70.2	21.5	41.8	69.1	21.6	57.8	100.6	24.3
1979	43.1	69.9	22.9	42.3	68.7	22.8	58.4	100.8	25.4
1980	44.2	71.9	23.4	42.9	69.5	23.3	67.0	115.7	29.7
1981	45.2	71.7	25.3	44.4	70.3	25.4	64.6	111.7	28.9
1982	45.6	72.2	25.9	45.0	70.6	26.4	62.4	109.2	26.9
1983	45.7	71.1	26.9	44.9	69.1	27.5	67.7	117.7	30.2
1984	47.2	73.2	27.9	45.8	70.5	27.8	72.9	126.4	33.3
1985	46.8	70.7	28.9	45.9	68.6	29.2	69.1	115.6	34.5
1986	47.0	70.1	29.9	46.2	68.0	30.3	70.0	118.0	35.3
1987	49.0	73.0	31.1	48.7	71.7	31.7	65.7	111.3	32.6
1988	48.6	70.0	32.6	48.2	68.6	33.3	68.3	110.1	37.8
1989	48.1	69.4	32.2	47.6	68.0	32.8	67.6	108.4	37.9
1990	49.2	69.7	34.0	48.9	68.5	34.4	66.9	103.9	40.7
1991	49.6	69.6	34.8	49.0	67.8	35.3	70.5	111.4	40.6
1992	50.4	70.1	35.7	49.4	67.4	36.3	73.0	116.1	41.7
1993	49.1	68.0	34.9	48.7	66.1	35.8	66.2	103.2	39.5
1994	48.5	65.5	35.9	48.1	64.2	36.3	67.2	101.2	42.4
1995	47.7	63.7	35.6	47.4	61.6	36.8	65.1	103.8	37.2
1996	45.9	59.9	35.4	45.5	58.0	36.2	62.5	92.0	41.3
<u>AGE-ADJUSTED RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	48.3	65.4	35.5	47.8	63.4	36.3	66.7	103.1	40.4
Under 65	20.9	25.6	16.6	20.1	23.6	16.7	35.3	51.3	22.2
65 and over	298.4	428.5	208.1	300.8	426.4	214.7	353.6	575.9	205.8
All ages (world std.) <sup>§</sup>	37.7	50.2	28.0	37.2	48.3	28.6	53.9	82.0	33.0
<u>AGE-SPECIFIC RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
15-19	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
20-24	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.9	0.2
25-29	0.5	0.6	0.4	0.5	0.5	0.4	0.8	0.7	0.8
30-34	1.7	1.9	1.4	1.6	1.8	1.3	2.7	3.4	2.2
35-39	4.5	4.9	4.1	4.0	4.0	4.0	9.5	13.0	6.5
40-44	10.6	12.5	8.7	8.9	9.9	7.9	23.4	33.4	14.8
45-49	26.9	29.6	24.3	24.6	26.1	23.1	52.1	64.6	41.3
50-54	60.0	70.5	49.8	55.4	61.7	49.2	117.5	167.6	74.9
55-59	109.6	134.1	86.6	106.1	123.6	89.3	182.7	281.5	103.5
60-64	177.8	228.1	132.5	176.5	219.9	136.3	263.1	387.3	165.1
65-69	265.0	355.1	190.0	267.0	350.2	196.6	342.8	507.4	215.4
70-74	320.4	442.7	225.7	322.4	434.8	235.1	401.9	668.1	216.2
75-79	345.0	501.2	237.1	351.4	505.6	245.6	355.1	605.7	196.0
80-84	317.4	501.3	212.6	320.4	507.3	216.3	338.2	608.2	194.3
85+	226.2	421.8	148.2	221.7	424.9	144.3	249.3	436.5	166.9

§ SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.  
 § SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XV-6  
LUNG AND BRONCHUS CANCER (Invasive)

U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES\*, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DEATH:</u>									
1973	34.8	62.4	13.3	34.3	61.6	13.3	40.8	75.1	13.6
1974	36.0	64.1	14.3	35.5	63.2	14.3	42.5	78.5	14.2
1975	36.8	65.1	15.2	36.4	64.2	15.3	43.3	79.7	14.9
1976	38.1	66.7	16.4	37.7	65.7	16.5	44.7	82.0	15.9
1977	39.2	68.2	17.3	38.6	66.8	17.4	47.8	87.8	17.3
1978	40.4	69.5	18.6	39.9	68.2	18.7	48.5	88.8	17.9
1979	41.1	70.1	19.4	40.5	68.8	19.5	49.4	89.7	19.2
1980	42.5	71.5	20.9	41.9	70.0	21.0	51.8	92.7	21.4
1981	43.0	71.7	21.7	42.3	70.0	21.8	53.1	95.5	21.9
1982	44.2	72.9	23.0	43.6	71.3	23.2	54.6	97.9	23.0
1983	44.9	72.9	24.4	44.3	71.3	24.6	55.7	98.0	25.0
1984	45.8	73.9	25.1	45.1	72.0	25.4	56.9	102.1	24.5
1985	46.6	74.1	26.4	46.0	72.3	26.8	57.5	101.6	26.0
1986	47.1	74.3	27.2	46.4	72.4	27.5	58.3	102.6	27.0
1987	48.1	75.1	28.3	47.4	73.3	28.5	59.8	104.6	28.4
1988	48.6	74.8	29.4	48.0	73.0	29.8	59.9	104.1	29.3
1989	49.3	74.7	30.8	48.7	72.6	31.2	61.6	106.7	30.3
1990	50.1	75.2	31.6	49.4	73.2	32.0	62.5	107.0	31.8
1991	50.0	74.4	32.2	49.5	72.5	32.6	61.6	104.6	32.0
1992	50.0	72.9	33.1	49.4	71.0	33.5	61.5	102.4	33.4
1993	50.1	72.5	33.5	49.7	70.7	34.1	60.9	102.4	32.4
1994	49.6	70.8	33.8	49.2	69.2	34.4	60.0	99.1	33.2
1995	49.3	69.5	34.2	49.0	67.9	34.8	59.4	97.0	33.5
1996	48.8	68.2	34.3	48.6	66.8	35.0	58.3	94.4	33.5
<u>AGE-ADJUSTED RATES, 1992-96</u>									
<u>AGE AT DEATH:</u>									
All ages	49.5	70.8	33.8	49.2	69.1	34.4	60.0	99.0	33.2
Under 65	20.9	27.3	15.0	20.4	26.0	15.2	29.2	45.4	16.4
65 and over	311.2	467.2	205.3	312.1	462.5	209.7	341.3	588.3	185.7
All ages (world std.)N	38.4	54.0	26.4	38.1	52.5	26.9	47.6	77.4	26.5
<u>AGE-SPECIFIC RATES, 1992-96</u>									
<u>AGE AT DEATH:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
20-24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25-29	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2
30-34	1.0	1.1	0.9	1.0	1.1	0.9	1.5	2.0	1.2
35-39	3.4	3.9	2.9	3.2	3.5	2.8	5.7	7.7	3.9
40-44	9.3	11.4	7.3	8.5	10.1	7.0	16.9	24.1	10.7
45-49	24.6	30.2	19.2	23.2	27.4	19.0	42.0	61.8	25.4
50-54	58.2	74.0	43.2	56.1	69.0	43.7	89.2	137.9	49.4
55-59	110.8	144.9	79.5	108.6	138.2	80.7	153.9	240.8	85.8
60-64	186.2	251.9	128.0	185.0	244.5	131.1	234.1	373.7	128.6
65-69	266.3	373.0	178.3	266.7	367.5	182.4	307.2	489.4	172.2
70-74	329.6	472.2	220.5	329.4	464.5	225.0	382.1	639.9	208.2
75-79	357.0	536.7	235.0	359.7	533.3	241.0	364.0	646.6	192.7
80-84	354.9	589.6	224.0	357.1	587.5	228.7	355.8	695.9	180.5
85+	270.5	524.0	171.5	271.1	526.4	172.8	271.8	549.2	157.4

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

N NCHS public use tape. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XV-7  
LUNG AND BRONCHUS CANCER (Invasive)

## SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>5-YR RELATIVE SURVIVAL RATES</b>									
YEAR OF DIAGNOSIS:									
1960-63 <sup>a</sup>	-	-	-	8	7	11	5	5	6
1970-73 <sup>a</sup>	-	-	-	10	9	14	7	6	10
1974-76 <sup>b</sup>	12.5	11.2	15.8	12.5	11.1	16.0	11.5	11.0	13.1
1977-79 <sup>b</sup>	13.4	11.8	17.2	13.7	12.1	17.3	11.1	9.1	17.0
1980-82 <sup>b</sup>	13.4	12.1	16.1	13.5	12.2	16.2	12.2	11.0	15.4
1983-85 <sup>b</sup>	13.6	11.9	16.8	13.9	12.1	17.0	11.5	10.4	14.1
1986-88 <sup>b</sup>	13.3	12.0	15.3	13.5	12.1	15.8	11.8	11.9	11.7
1989-95 <sup>b</sup>	13.9 <b>S</b>	12.4 <b>S</b>	16.1 <b>S</b>	14.2 <b>S</b>	12.7 <b>S</b>	16.4 <b>S</b>	11.3	9.9	14.0
1989-95 <sup>b</sup>									
ALL STAGES	13.9	12.4	16.1	14.2	12.7	16.4	11.3	9.9	14.0
LOCALIZED	48.9	45.5	53.1	49.5	46.1	53.5	42.1	38.3	48.1
REGIONAL	19.9	18.2	22.6	20.4	18.9	22.6	15.8	13.6	19.9
DISTANT	2.2	1.9	2.6	2.1	1.8	2.6	2.3	2.1	2.5
UNSTAGED	7.5	6.3	9.2	7.4	6.2	9.1	9.2	7.5	12.4
<b>STAGE DISTRIBUTION (%) 1989-95<sup>b</sup></b>									
ALL STAGES									
Number of cases	86,547	52,059	34,488	72,800	43,063	29,737	9,208	6,048	3,160
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	15	14	16	15	14	16	13	12	14
REGIONAL	23	24	22	23	24	22	24	24	23
DISTANT	48	48	47	47	48	46	51	51	51
UNSTAGED	14	14	15	15	15	15	12	12	12
<b>5-YR RELATIVE SURVIVAL RATES, 1989-95<sup>b</sup></b>									
AGE AT DIAGNOSIS:									
<45	21.2	17.2	26.8	23.0	18.5	28.8	15.7	11.8	22.7
45-54	16.7	14.5	20.0	17.5	15.2	20.6	12.5	10.8	15.7
55-64	15.4	13.7	18.1	15.8	14.3	18.1	12.2	10.1	16.3
65-74	13.8	12.6	15.5	14.0	12.7	15.9	10.5	10.4	10.7
75+	9.3	7.8	11.1	9.5	8.0	11.4	6.9	4.8	10.7
Under 65	16.2	14.2	19.3	16.8	14.8	19.6	12.7	10.5	17.0
65 and over	12.2	11.0	13.9	12.5	11.1	14.2	9.6	9.0	10.6

<sup>a</sup> Rates are based on End Results data from a series of hospital registries and one population-based registry.  
<sup>b</sup> Rates are from the SEER Program. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients through 1996.  
**S** The difference in rates between 1974-76 and 1989-95 is statistically significant (p<.05).  
↑ The standard error of the survival rate is between 5 and 10 percentage points.  
↑ The standard error of the survival rate is greater than 10 percentage points.  
- Statistic could not be calculated.

Table XV-8  
SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

## SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>5-YR RELATIVE SURVIVAL RATES</b>									
YEAR OF DIAGNOSIS:									
1974-76 <sup>b</sup>	3.6	3.0	5.0	3.6	2.9	5.0	3.4	3.6	3.1
1977-79 <sup>b</sup>	4.5	3.3	6.8	4.5	3.3	6.8	3.8	3.4	4.8
1980-82 <sup>b</sup>	4.7	3.8	6.2	4.8	4.0	6.2	4.0	3.0	6.4
1983-85 <sup>b</sup>	4.8	3.6	6.7	4.9	3.7	6.7	4.7	2.5	8.5
1986-88 <sup>b</sup>	5.0	3.9	6.5	5.2	4.0	6.8	3.9	3.4	4.6
1989-95 <sup>b</sup>	<b>5.7S</b>	<b>4.6S</b>	<b>6.9S</b>	<b>5.7S</b>	<b>4.5S</b>	<b>7.0S</b>	<b>5.4S</b>	<b>5.2S</b>	5.4
1989-95 <sup>b</sup>									
ALL STAGES	5.7	4.6	6.9	5.7	4.5	7.0	5.4	5.2	5.4
LOCALIZED	18.0	16.6	19.7	17.9	16.1	19.8	15.2↑	12.2↑	17.7↑
REGIONAL	11.4	9.9	12.9	11.8	10.3	13.2	7.4	6.6	8.3
DISTANT	2.1	1.7	2.6	2.0	1.6	2.5	2.3	2.6	1.9
UNSTAGED	8.9	6.8	11.4	9.0	6.5	11.7	11.8	9.3	15.2↑
<b>STAGE DISTRIBUTION (%) 1989-95<sup>b</sup></b>									
ALL STAGES									
Number of cases	14,110	7,805	6,305	12,452	6,785	5,667	1,096	646	450
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	6	6	7	6	6	6	7	7	8
REGIONAL	18	17	20	18	16	19	22	21	22
DISTANT	62	64	61	63	64	61	62	62	63
UNSTAGED	13	13	13	13	13	14	9	11	6
<b>5-YR RELATIVE SURVIVAL RATES, 1989-95<sup>b</sup></b>									
AGE AT DIAGNOSIS:									
<45	9.1	10.3	7.0	9.2	9.5	8.2	11.5	15.9↑	-
45-54	8.7	7.2	10.9	8.7	7.2	10.9	7.8	6.8	9.4
55-64	6.5	4.5	8.9	6.6	4.5	9.0	5.3	3.7	7.1
65-74	5.1	4.3	6.0	5.1	4.3	6.1	3.3	4.3	0.0
75+	3.1	2.6	3.5	2.9	2.5	3.2	5.8	2.6	9.9
Under 65	7.2	5.6	9.2	7.3	5.5	9.4	6.4	5.7	7.1
65 and over	4.5	3.8	5.2	4.5	3.8	5.2	4.0	4.3	2.9

<sup>b</sup> Rates are from the SEER Program. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients through 1996.

**S** The difference in rates between 1974-76 and 1989-95 is statistically significant ( $p < .05$ ).

↑ The standard error of the survival rate is between 5 and 10 percentage points.

↑↑ The standard error of the survival rate is greater than 10 percentage points.

- Statistic could not be calculated.



Table XV-9  
NON-SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1974-76 <sup>b</sup>	13.9	12.4	17.9	14.0	12.4	18.2	12.4	11.7	15.0
1977-79 <sup>b</sup>	15.1	13.3	19.4	15.5	13.7	19.6	12.0	9.7	19.2
1980-82 <sup>b</sup>	15.2	13.6	18.4	15.4	13.8	18.6	13.3	12.1	16.9
1983-85 <sup>b</sup>	15.5	13.6	19.3	15.9	13.8	19.7	12.4	11.4	15.2
1986-88 <sup>b</sup>	15.1	13.6	17.6	15.4	13.7	18.1	13.1	13.1	13.0
1989-95 <sup>b</sup>	15.6 <b>S</b>	13.8 <b>S</b>	18.3 <b>S</b>	16.1 <b>S</b>	14.3 <b>S</b>	18.7 <b>S</b>	12.2	10.4	15.5
1989-95 <sup>b</sup>									
ALL STAGES	15.6	13.8	18.3	16.1	14.3	18.7	12.2	10.4	15.5
LOCALIZED	51.4	47.8	56.0	52.1	48.5	56.4	44.1	40.0	50.9
REGIONAL	21.2	19.2	24.5	21.7	19.9	24.5	16.8	14.2	21.6
DISTANT	2.2	2.0	2.5	2.2	1.9	2.6	2.3	2.0	2.7
UNSTAGED	7.3	6.3	8.7	7.1	6.2	8.4	8.9	7.2	12.1
<u>STAGE DISTRIBUTION (%) 1989-95<sup>b</sup></u>									
ALL STAGES									
Number of cases	72,437	44,254	28,183	60,348	36,278	24,070	8,112	5,402	2,710
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	16	15	18	17	15	19	13	13	15
REGIONAL	24	25	23	24	25	23	24	25	23
DISTANT	45	45	44	44	45	43	50	50	49
UNSTAGED	15	14	15	15	15	16	13	13	13
<u>5-YR RELATIVE SURVIVAL RATES, 1989-95<sup>b</sup></u>									
AGE AT DIAGNOSIS:									
<45	22.8	18.1	29.5	25.2	20.0	31.9	16.2	11.5	24.6
45-54	18.4	16.0	21.9	19.6	17.1	22.8	13.0	11.2	16.5
55-64	17.5	15.5	20.6	18.1	16.4	20.8	13.3	10.9	18.1
65-74	15.6	14.1	17.8	16.0	14.4	18.5	11.6	11.1	12.4
75+	10.3	8.6	12.6	10.7	8.8	13.0	7.0	5.0	10.7
Under 65	18.2	15.8	21.8	19.0	16.8	22.3	13.6	11.1	18.5
65 and over	13.7	12.3	15.8	14.1	12.5	16.4	10.4	9.6	11.8

<sup>b</sup> Rates are from the SEER Program. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients through 1996.

**S** The difference in rates between 1974-76 and 1989-95 is statistically significant ( $p < .05$ ).

**↑** The standard error of the survival rate is between 5 and 10 percentage points.

**↑↑** The standard error of the survival rate is greater than 10 percentage points.

**-** Statistic could not be calculated.

Table XV-10  
LUNG AND BRONCHUS CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

	Year of Diagnosis/Death																					
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Incidence																						
SEER	45.3	47.8	48.9	50.2	50.9	52.3	53.9	54.9	55.0	56.8	56.1	56.9	58.5	58.7	58.0	58.6	59.6	59.6	57.9	57.1	56.2	54.2
Mortality																						
U.S.	36.8	38.1	39.2	40.4	41.1	42.5	43.0	44.2	44.9	45.8	46.6	47.1	48.1	48.6	49.3	50.1	50.0	50.0	50.1	49.6	49.3	48.8
SEER	35.5	37.2	37.4	38.1	39.4	40.0	40.2	41.5	42.5	42.0	43.4	42.4	43.7	44.5	44.8	44.2	45.7	44.7	44.4	44.2	43.4	42.5
Relative Survival Rates (SEER)																						
1-year	34.3	36.3	37.1	38.6	37.4	38.3	37.7	39.2	39.6	39.1	39.7	40.4	39.8	40.2	40.4	40.4	41.3	41.1	40.8	40.7	41.0	
2-year	20.5	21.5	22.0	22.7	22.1	22.1	22.2	22.9	23.5	22.6	23.1	23.3	22.8	23.2	23.5	23.7	24.0	24.7	24.5	24.2		
3-year	15.6	16.8	16.8	17.5	17.1	16.9	16.9	17.9	18.1	17.6	17.8	17.7	17.1	17.6	17.6	18.0	18.8	18.8	18.7			
4-year	13.5	14.5	14.5	15.0	14.8	14.4	14.7	15.6	15.5	14.8	15.2	14.9	14.8	15.1	15.2	15.2	16.0	15.9				
5-year	12.1	13.0	13.1	13.7	13.5	12.9	13.3	13.9	14.1	13.2	13.7	13.2	13.3	13.3	13.9	13.7	14.0					
6-year	11.0	12.1	12.4	12.5	12.4	12.1	12.1	12.5	12.9	12.1	12.7	12.2	12.2	12.1	12.9	12.6						
7-year	10.5	11.5	11.7	11.7	11.9	11.2	11.1	11.9	11.9	11.2	11.7	11.4	11.1	11.1	11.1	11.9						
8-year	10.1	10.8	11.1	11.2	11.0	10.3	10.3	11.1	11.1	10.4	10.9	10.6	10.4	10.4								
9-year	9.8	10.2	10.5	10.5	10.3	9.7	9.6	10.5	10.4	9.7	10.3	10.1	9.7									
10-year	9.4	9.7	9.9	9.9	9.6	8.8	9.1	9.9	9.8	9.2	9.7	9.4										
11-year	9.1	9.1	9.5	9.5	9.1	8.4	8.8	9.6	9.4	8.9	9.2											
12-year	8.8	8.6	9.0	9.1	8.8	7.9	8.5	8.9	9.0	8.4												
13-year	8.4	8.2	8.7	8.9	8.4	7.4	8.0	8.7	8.5													
14-year	8.2	7.7	8.5	8.4	8.1	7.0	7.6	8.3														
15-year	7.8	7.4	8.0	8.0	7.5	6.6	7.2															
16-year	7.6	7.3	7.7	7.9	7.3	6.5																
17-year	7.1	7.1	7.6	7.8	6.8																	
18-year	7.0	6.8	7.3	7.5																		
19-year	6.9	6.3	7.1																			
20-year	6.8	6.0																				
21-year	6.7																					

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
Survival rates are relative rates expressed as percents.

Table XV-11  
LUNG AND BRONCHUS CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Incidence																						
SEER	76.2	79.3	80.7	82.0	81.4	84.4	84.5	85.1	84.1	86.5	83.8	83.6	85.3	83.4	82.2	81.7	81.8	81.7	78.7	75.6	74.1	70.0
Mortality																						
U.S.	65.1	66.7	68.2	69.5	70.1	71.5	71.7	72.9	72.9	73.9	74.1	74.3	75.1	74.8	74.7	75.2	74.4	72.9	72.5	70.8	69.5	68.2
SEER	61.9	63.7	63.1	64.2	65.5	65.9	65.3	65.6	67.0	65.3	66.5	64.8	65.5	65.8	65.4	63.8	64.3	63.1	61.9	61.2	58.4	56.7
Relative Survival Rates (SEER)																						
1-year	33.1	34.2	35.2	36.3	35.2	36.6	35.7	37.3	37.6	37.3	37.1	38.4	38.3	38.2	38.1	38.0	38.9	39.2	38.2	38.5	39.0	
2-year	19.2	19.9	20.4	20.8	20.4	20.9	20.3	21.2	21.3	21.0	21.1	21.1	21.8	21.8	22.1	21.3	21.9	23.3	22.2	21.7		
3-year	14.3	15.3	15.4	15.5	15.4	15.9	15.0	16.4	16.0	15.8	15.8	16.1	16.0	16.4	16.2	16.0	17.0	17.6	16.4			
4-year	12.3	13.2	12.9	13.1	13.3	13.5	13.0	14.0	13.7	13.1	13.1	13.2	13.8	13.6	14.0	13.4	14.0	14.6				
5-year	11.0	11.8	11.9	11.7	11.9	12.1	11.7	12.4	12.5	11.5	11.8	11.7	12.3	12.0	12.8	11.9	12.4					
6-year	9.9	10.7	11.3	10.7	11.0	11.3	10.6	11.2	11.3	10.5	10.8	10.7	11.3	10.7	11.9	10.9						
7-year	9.4	10.2	10.6	9.9	10.5	10.5	9.7	10.4	10.5	9.6	9.9	10.0	10.4	9.7	11.1							
8-year	9.0	9.5	10.1	9.5	9.7	9.6	8.9	9.7	9.7	8.8	9.2	9.2	9.8	9.0								
9-year	8.9	9.0	9.5	8.8	9.1	8.9	8.2	9.2	8.9	8.3	8.7	8.7	9.2									
10-year	8.4	8.6	8.9	8.1	8.6	8.1	7.8	8.7	8.4	7.9	8.2	8.2										
11-year	8.1	8.1	8.3	7.8	8.0	7.7	7.5	8.4	7.9	7.7	7.9											
12-year	7.8	7.7	7.8	7.4	7.7	7.2	7.1	8.0	7.5	7.4												
13-year	7.3	7.2	7.5	7.2	7.3	6.9	6.6	7.8	7.1													
14-year	7.1	6.8	7.3	6.8	7.2	6.6	6.1	7.5														
15-year	6.6	6.4	7.0	6.2	6.8	6.3	5.9															
16-year	6.6	6.1	6.5	6.2	6.6	6.2																
17-year	6.3	6.0	6.5	6.1	6.0																	
18-year	6.0	5.7	6.3	5.9																		
19-year	6.0	5.2	6.1																			
20-year	6.0	5.0																				
21-year	6.0																					

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
Survival rates are relative rates expressed as percents.

Table XV-12  
LUNG AND BRONCHUS CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
Incidence																							
SEER	21.5	23.8	24.7	26.2	27.8	28.1	30.9	32.3	33.3	34.6	35.3	37.0	38.6	40.4	40.1	41.5	43.2	43.2	42.3	43.4	42.7	42.3	
Mortality																							
U.S.	15.2	16.4	17.3	18.6	19.4	20.9	21.7	23.0	24.4	25.1	26.4	27.2	28.3	29.4	30.8	31.6	32.2	33.1	33.5	33.8	34.2	34.3	
SEER	15.2	17.2	18.1	18.5	19.9	20.6	21.6	23.7	24.5	24.9	26.4	25.9	27.5	28.9	29.7	29.9	32.2	31.3	31.3	31.6	32.3	31.9	
Relative Survival Rates (SEER)																							
1-year	37.7	41.7	42.2	44.7	42.7	42.3	42.3	43.2	43.5	42.7	44.8	44.0	42.4	43.5	44.3	44.1	44.9	44.0	44.6	43.8	43.8		
2-year	24.2	25.7	26.1	27.6	26.1	25.0	26.2	26.5	27.7	25.8	26.9	27.1	24.6	25.5	25.8	27.2	27.0	26.7	27.9	27.6			
3-year	19.1	20.9	20.3	22.2	20.9	19.4	20.8	21.1	22.2	20.9	21.6	20.6	19.0	19.5	19.7	21.1	21.4	20.7	22.0				
4-year	16.6	18.0	18.3	19.7	18.2	16.5	18.2	18.8	18.9	17.9	19.1	17.8	16.6	17.3	17.2	18.0	18.8	17.9					
5-year	15.1	16.2	16.0	18.4	17.0	14.8	16.4	16.8	17.1	16.2	17.2	15.8	14.8	15.4	15.7	16.3	16.4						
6-year	14.1	15.4	15.1	16.8	15.5	13.7	15.0	15.0	15.9	14.9	16.1	14.6	13.5	14.2	14.4	15.0							
7-year	13.2	14.5	14.3	15.7	14.8	12.7	13.8	14.6	14.6	14.1	14.7	13.7	12.1	13.2	13.0								
8-year	12.8	13.6	13.3	14.8	13.8	11.9	13.1	13.6	13.7	13.2	13.8	12.8	11.4	12.5									
9-year	12.2	12.9	12.9	14.2	12.8	11.3	12.2	12.7	13.0	12.0	12.9	12.3	10.4										
10-year	11.6	12.1	12.3	13.8	11.5	10.2	11.6	12.1	12.3	11.5	12.2	11.3											
11-year	11.4	11.1	12.1	13.0	11.2	9.6	11.2	11.6	11.9	10.9	11.4												
12-year	11.3	10.5	11.7	12.5	10.7	9.3	10.9	10.5	11.3	10.2													
13-year	10.9	10.3	11.2	12.3	10.4	8.4	10.3	10.1	10.8														
14-year	10.5	9.6	10.9	11.5	9.7	7.6	10.0	9.6															
15-year	10.3	9.4	10.1	11.4	8.9	7.2	9.4																
16-year	9.6	9.4	10.0	11.0	8.5	7.0																	
17-year	8.8	9.0	9.6	10.7	8.1																		
18-year	8.8	8.7	8.9	10.3																			
19-year	8.6	8.3	8.7																				
20-year	8.1	7.8																					
21-year	7.4																						

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
Survival rates are relative rates expressed as percents.

Table XV-13

## LUNG AND BRONCHUS CANCER (Invasive)

## AGE-SPECIFIC CANCER SEER INCIDENCE RATES§ AND 24-YEAR TRENDS, 1973-96

By Race, Sex and Age Group

Sex/Age	All Races				Whites				Blacks			
	Average	Rate⊕	% Change	EAPC	Average	Rate⊕	% Change	EAPC	Average	Rate⊕	% Change	EAPC
	1973-74	95-96	73-96	73-96	1973-74	95-96	73-96	73-96	1973-74	95-96	73-96	73-96
Males & Females	43.2	55.2	27.8	1.2★	42.5	55.3	30.1	1.3★	58.8	71.5	21.5	1.2★
0-54:	10.5	8.1	-22.4	-1.3★	9.9	7.6	-23.5	-1.4★	18.1	14.6	-19.4	-1.0★
0-14	0.0	0.0	-30.1	-	0.0	0.0	-29.1	-	0.1	0.0	-	-
15-34	0.7	0.4	-35.3	-0.6	0.6	0.4	-31.4	-0.6	0.8	0.5	-37.1	1.0
35-44	13.8	8.4	-39.0	-2.6★	13.1	7.1	-45.4	-2.9★	21.0	17.7	-15.5	-1.6★
45-54	58.6	48.0	-18.1	-1.1★	55.7	45.5	-18.2	-1.1★	105.1	84.5	-19.6	-0.9★
55-64	145.3	161.5	11.1	0.6★	143.3	160.8	12.3	0.7★	204.9	235.5	14.9	1.0★
65+:	217.0	343.0	58.1	2.2★	216.2	348.8	61.4	2.3★	257.3	385.8	49.9	2.3★
65-74	227.1	334.4	47.3	1.9★	226.9	341.4	50.5	2.0★	283.3	382.0	34.8	2.0★
75+	200.6	357.0	78.0	2.8★	198.7	361.0	81.6	2.9★	215.0	392.0	82.3	2.8★
Males	73.9	72.0	-2.5	-0.1	73.3	70.3	-4.0	-0.1	103.3	108.3	4.8	0.4
0-54:	14.6	9.2	-37.0	-2.2★	13.7	8.2	-40.0	-2.5★	27.8	19.5	-29.9	-1.7★
0-14	0.0	0.0	83.9	-	0.0	0.1	103.3	-	0.0	0.0	-	-
15-34	0.8	0.5	-34.7	-0.6	0.7	0.5	-27.6	-0.4	1.5	0.8	-45.7	-0.5
35-44	17.3	9.6	-44.5	-2.8★	16.2	7.4	-54.2	-3.3★	29.3	26.1	-10.8	-1.7★
45-54	84.1	54.2	-35.6	-2.2★	79.2	49.5	-37.5	-2.4★	164.1	110.1	-33.0	-1.7★
55-64	228.0	197.6	-13.3	-0.5★	224.0	188.4	-15.9	-0.6★	353.1	350.7	-0.7	0.1
65+:	417.2	471.2	12.9	0.6★	422.2	470.5	11.4	0.6★	491.1	612.1	24.6	1.3★
65-74	415.0	435.0	4.8	0.3★	420.7	433.5	3.0	0.2	529.8	569.6	7.5	0.9★
75+	420.7	530.1	26.0	1.0★	424.7	530.9	25.0	1.0★	428.1	681.4	59.2	2.1★
Females	19.1	42.5	123.0	3.7★	18.8	44.1	134.5	3.9★	21.3	44.9	110.6	3.8★
0-54:	6.6	7.1	8.1	0.1	6.3	7.0	10.1	0.2	9.3	10.4	11.2	0.3
0-14	0.1	0.0	-69.8	-	0.1	0.0	-	-	0.2	0.0	-	-
15-34	0.6	0.4	-36.3	-0.6	0.6	0.4	-35.8	-0.7	0.2	0.3	28.6	-
35-44	10.4	7.2	-30.3	-2.3★	10.0	6.9	-31.5	-2.5★	13.7	10.4	-24.2	-1.3
45-54	34.5	42.1	21.9	0.7★	33.3	41.6	25.2	0.8★	51.5	62.6	21.5	0.7★
55-64	68.6	128.3	87.0	3.0★	69.2	134.8	94.8	3.1★	70.7	144.2	103.9	4.1★
65+:	75.6	253.3	234.9	5.8★	74.3	264.2	255.7	6.0★	74.1	236.5	219.3	6.0★
65-74	79.8	253.2	217.4	5.4★	79.2	266.2	235.9	5.6★	72.6	244.0	236.0	6.3★
75+	68.8	253.4	268.0	6.4★	66.2	261.1	294.2	6.7★	76.4	224.1	193.3	5.6★

The EAPC is the Estimated Annual Percent Change over the time interval.

§ SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population. Each rate has been age-adjusted by 5-year age groups.

⊕ The Average Rate is the Average Annual Rate over the specified two-year period.

★ The EAPC is significantly different from zero ( $p < .05$ ).

- Statistic could not be calculated.

Table XV-14

## LUNG AND BRONCHUS CANCER (Invasive)

## AGE-SPECIFIC CANCER U.S. MORTALITY RATES\* AND 24-YEAR TRENDS, 1973-96

By Race, Sex and Age Group

Sex/Age	All Races				Whites				Blacks			
	Average	Rate <sup>⊕</sup>	% Change	EAPC	Average	Rate <sup>⊕</sup>	% Change	EAPC	Average	Rate <sup>⊕</sup>	% Change	EAPC
	1973-74	95-96	73-96	73-96	1973-74	95-96	73-96	73-96	1973-74	95-96	73-96	73-96
Males & Females	35.4	49.1	38.6	1.6★	34.9	48.8	39.8	1.6★	41.7	58.9	41.3	1.7★
0-54:	8.3	6.5	-22.2	-1.2★	7.8	6.2	-20.9	-1.2★	13.7	10.2	-25.5	-1.3★
0-14	0.0	0.0	-36.6	-1.8	0.0	0.0	-31.7	-0.8	0.0	0.0	-35.0	-
15-34	0.4	0.3	-25.5	-1.4★	0.4	0.3	-23.1	-1.4★	0.5	0.3	-36.9	-1.2★
35-44	10.7	6.3	-40.6	-2.6★	10.0	5.8	-41.9	-2.7★	17.2	11.2	-35.1	-2.2★
45-54	47.3	38.8	-17.9	-1.0★	44.4	37.3	-16.1	-0.9★	78.5	60.3	-23.2	-1.1★
55-64	119.0	140.1	17.7	1.0★	116.9	138.4	18.4	1.0★	149.2	184.5	23.7	1.1★
65+:	179.9	313.9	74.5	2.6★	181.3	315.3	74.0	2.6★	171.6	341.5	99.1	3.4★
65-74	184.5	294.1	59.4	2.2★	185.4	294.8	59.0	2.2★	184.5	336.9	82.6	3.0★
75+	172.4	346.3	100.9	3.3★	174.4	348.7	99.9	3.3★	150.5	349.0	132.0	4.1★
Males	63.3	68.9	8.9	0.5★	62.4	67.3	8.0	0.4★	76.8	95.7	24.6	1.1★
0-54:	12.4	8.0	-35.9	-2.1★	11.5	7.4	-35.8	-2.1★	23.0	15.1	-34.2	-1.8★
0-14	0.0	0.0	-29.5	-	0.0	0.0	-30.8	-	0.0	0.0	-16.2	-
15-34	0.5	0.3	-32.1	-2.0★	0.4	0.3	-28.5	-2.0★	0.8	0.4	-49.5	-1.9★
35-44	15.0	7.5	-50.3	-3.2★	13.8	6.6	-52.4	-3.4★	27.2	15.5	-43.0	-2.7★
45-54	72.0	48.3	-33.0	-1.9★	66.5	44.9	-32.5	-1.9★	133.8	90.8	-32.2	-1.6★
55-64	198.8	183.9	-7.5	-0.1	193.4	176.8	-8.6	-0.1	273.0	291.6	6.8	0.3
65+:	354.4	461.6	30.3	1.2★	358.2	457.7	27.8	1.1★	336.5	575.1	70.9	2.7★
65-74	350.5	410.5	17.1	0.7★	352.7	405.2	14.9	0.6★	355.8	536.6	50.8	2.1★
75+	360.8	544.9	51.0	1.9★	367.3	543.2	47.9	1.8★	305.0	638.0	109.2	3.7★
Females	13.8	34.3	148.3	4.3★	13.8	34.9	152.9	4.4★	13.9	33.5	140.4	4.2★
0-54:	4.5	5.0	12.6	0.4	4.3	5.0	15.5	0.5	5.8	6.1	4.7	0.2
0-14	0.0	0.0	-46.2	-0.1	0.0	0.0	-33.0	-	0.0	0.0	-	-
15-34	0.3	0.2	-15.2	-0.5	0.3	0.2	-15.4	-0.6	0.3	0.3	-6.4	-0.1
35-44	6.5	5.2	-19.8	-1.6★	6.3	5.0	-19.8	-1.7★	8.9	7.4	-16.7	-1.2★
45-54	24.4	29.8	22.2	0.8★	23.8	29.9	25.9	0.9★	31.7	35.2	11.0	0.5
55-64	48.5	100.5	107.2	3.5★	49.0	103.0	110.4	3.5★	46.3	102.6	121.4	4.0★
65+:	58.2	212.5	265.5	6.3★	58.9	217.1	268.7	6.3★	50.2	193.8	285.9	6.6★
65-74	57.2	200.9	251.6	6.0★	57.8	205.2	254.8	6.1★	51.5	195.2	278.8	6.5★
75+	59.8	231.5	287.2	6.6★	60.6	236.5	290.4	6.7★	48.1	191.4	298.1	6.6★

The EAPC is the Estimated Annual Percent Change over the time interval.

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population. Each rate has been age-adjusted by 5-year age groups.

⊕ The Average Rate is the Average Annual Rate over the specified two-year period.

★ The EAPC is significantly different from zero ( $p < .05$ ).

- Statistic could not be calculated.

Table XV-15  
LUNG AND BRONCHUS CANCER (Invasive)

Percent Diagnosed With Cancer In 10, 20 and 30 Years and In Remaining Lifetime,  
 Given Cancer Free At Current Age By Race and Sex

Lifetime Risk (Percent) of Being Diagnosed With Cancer and  
 Lifetime Risk (Percent) of Dying From Cancer

SEER Areas, 1994-96

All Races

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.01	8.11	0.00	0.00	0.00	5.69
10	0.00	0.01	0.04	8.19	0.00	0.00	0.03	5.73
20	0.00	0.04	0.25	8.25	0.00	0.03	0.21	5.75
30	0.03	0.25	1.29	8.38	0.03	0.21	0.96	5.78
40	0.22	1.29	3.83	8.56	0.18	0.94	2.65	5.80
50	1.11	3.76	6.94	8.69	0.78	2.52	4.56	5.74
60	2.89	6.35	8.03	8.26	1.83	3.98	5.05	5.22
	Lifetime Risk of Being Diagnosed = 8.11%				Lifetime Risk of Being Diagnosed = 5.69%			
	Lifetime Risk of Dying = 6.83%				Lifetime Risk of Dying = 4.54%			

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.01	8.17	0.00	0.00	0.00	5.94
10	0.00	0.01	0.03	8.25	0.00	0.00	0.03	5.98
20	0.00	0.03	0.22	8.29	0.00	0.03	0.21	6.00
30	0.03	0.22	1.20	8.40	0.03	0.21	0.98	6.02
40	0.20	1.20	3.75	8.56	0.18	0.96	2.76	6.04
50	1.04	3.68	6.91	8.67	0.79	2.63	4.77	5.97
60	2.86	6.34	8.03	8.25	1.93	4.17	5.26	5.43
	Lifetime Risk of Being Diagnosed = 8.17%				Lifetime Risk of Being Diagnosed = 5.94%			
	Lifetime Risk of Dying = 6.94%				Lifetime Risk of Dying = 4.77%			

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	8.33	0.00	0.00	0.00	4.94
10	0.00	0.00	0.08	8.52	0.00	0.00	0.05	5.03
20	0.00	0.08	0.52	8.63	0.00	0.05	0.31	5.05
30	0.08	0.53	2.35	8.95	0.05	0.31	1.23	5.10
40	0.48	2.39	5.38	9.38	0.27	1.21	2.84	5.17
50	2.13	5.44	8.52	9.87	0.98	2.69	4.31	5.13
60	3.98	7.69	9.16	9.31	1.90	3.68	4.43	4.58
	Lifetime Risk of Being Diagnosed = 8.33%				Lifetime Risk of Being Diagnosed = 4.94%			
	Lifetime Risk of Dying = 6.96%				Lifetime Risk of Dying = 3.84%			

Table XV-16  
LUNG AND BRONCHUS (Invasive)

AGE-ADJUSTED SEER INCIDENCE AND U.S. MORTALITY RATES

By Race/Ethnicity and Sex

Incidence<sup>i</sup>

RACE/ETHNICITY	Rate 1990-1996			Trend 1990-1996		
	Rate per 100,000 persons			EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	55.7	74.5	41.7	-1.6★	-2.8★	-0.1
White	55.9	73.1	43.3	-1.5★	-3.0★	0.2
White Hispanic	28.9	40.8	20.5	-3.9★	-4.9★	-2.9★
White Non-Hispanic	58.8	76.4	45.8	-1.3★	-2.8★	0.5
Black	73.9	112.3	46.2	-1.8★	-2.4	-1.0
Asian/Pacific Islander <sup>‡</sup>	35.8	52.4	22.5	-1.3	-1.2	-0.7
American Indian	18.6	25.3	13.5	-2.4	2.2	-8.1★
Hispanic <sup>⊙</sup>	27.6	38.8	19.6	-4.1★	-4.9★	-3.2★

Mortality<sup>‡</sup>

RACE/ETHNICITY	Rate 1990-1996			Trend 1990-1996		
	Rate per 100,000 persons			EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	49.7	71.9	33.2	-0.4★	-1.6★	1.4★
White	49.3	70.1	33.8	-0.3★	-1.5★	1.5★
White Hispanic	20.9	33.6	11.6	-0.9★	-1.6★	0.2
White Non-Hispanic	50.5	71.5	34.9	0.0	-1.3★	1.8★
Black	60.5	100.8	32.8	-1.1★	-2.0★	0.9★
Asian/Pacific Islander <sup>‡</sup>	23.7	34.9	14.9	-0.6	-1.1	1.0
American Indian	28.8	40.5	19.8	2.5★	1.1	4.1★
Hispanic <sup>⊙</sup>	19.9	32.0	11.0	-1.3★	-2.0★	-0.2

- The EAPC is the Estimated Annual Percent Change over the time interval.
- Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.
- <sup>i</sup> Incidence data are from the 11 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, and Los Angeles).
- ⊙ Unless specified, other tables use data from 9 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- ⊙ Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians. For incidence, all 11 SEER areas are included. For mortality, information is included for all states except Connecticut, Oklahoma, Louisiana, and New Hampshire.
- ‡ Mortality data are analyzed from a public-use file provided by the National Center for Health Statistics (NCHS).
- ‡ Population estimates for the Asian Pacific Islanders rates are adjusted Census Bureau estimates. The population estimates used in Wingo PA, Ries LAG, Rosenberg HM, Miller DS, Edwards BK. Cancer Incidence and mortality, 1973-1996. Cancer 82:1197-207, 1998 were unadjusted.
- ★ The EAPC is significantly different from zero (p<.05).



Table XV-17  
LUNG AND BRONCHUS CANCER (Invasive)AGE-ADJUSTED SEER INCIDENCE RATES§ AND SEER MORTALITY RATES\*  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES§, 1992-96</u>									
REGISTRY									
11 registries	55.0	72.7	41.7	55.2	71.1	43.5	72.8	110.2	45.7
9 registries	57.0	75.9	42.8	56.9	74.3	44.1	75.0	114.2	46.6
San Francisco-Oakland	54.5	68.9	43.7	56.0	67.1	47.9	73.8	106.3	49.4
Connecticut	59.1	75.9	47.2	58.9	74.7	47.9	64.9	101.5	39.8
Metropolitan Detroit	70.4	97.1	51.1	67.6	91.1	51.2	81.4	123.3	51.1
Hawaii	44.8	61.3	30.3	59.1	72.3	47.0	-	-	-
Iowa	57.8	83.1	39.0	57.6	82.6	39.0	-	-	-
New Mexico	39.8	52.6	29.7	41.5	54.6	31.1	-	-	-
Seattle-Puget Sound	61.7	77.3	49.7	62.3	77.0	51.0	77.1	110.5	45.4
Utah	26.7	37.4	17.9	26.5	37.0	17.9	-	-	-
Metropolitan Atlanta	64.3	91.6	45.5	62.6	84.7	47.4	70.1	118.0	39.9
San Jose-Monterey	50.2	62.7	41.0	52.5	64.0	44.4	68.8	105.8	38.5
Los Angeles	49.8	64.6	38.8	49.8	61.8	41.0	68.0	101.5	43.8
<u>SEER MORTALITY RATES*, 1992-96</u>									
REGISTRY									
11 registries	42.6	58.0	31.2	42.9	57.1	32.5	57.9	90.5	34.7
9 registries	43.8	60.2	31.7	44.0	59.3	32.8	58.7	92.6	34.5
San Francisco-Oakland	42.6	54.7	33.7	44.4	54.0	37.5	59.7	87.5	39.3
Connecticut	43.8	59.3	33.1	43.8	58.5	33.7	47.9	77.0	27.8
Metropolitan Detroit	52.1	74.2	36.2	49.9	69.4	36.2	61.6	96.0	36.7
Hawaii	33.4	45.9	22.3	46.1	57.9	35.4	-	-	-
Iowa	45.6	66.9	30.0	45.4	66.4	30.0	-	-	-
New Mexico	34.2	46.5	24.5	35.4	48.1	25.4	-	-	-
Seattle-Puget Sound	47.9	62.2	37.2	48.6	62.3	38.2	54.5	84.2	26.8
Utah	21.6	31.0	14.0	21.4	30.5	14.1	-	-	-
Metropolitan Atlanta	50.3	75.0	33.7	48.3	68.6	34.6	59.5	105.0	31.6
San Jose-Monterey	37.9	49.8	29.2	39.8	51.3	31.7	48.1	79.4	24.7
Los Angeles	39.8	52.8	30.2	39.9	50.9	31.8	56.6	86.6	35.5

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.  
 § SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 \* NCHS public use tape. Mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 - Statistic could not be calculated or populations are inadequate.

Table XV-18  
LUNG AND BRONCHUS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1992-96

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	49.5	0.06		
High Five States				
Kentucky	67.9⊕*	0.56	(01)	37.2
Arkansas	62.1⊕*	0.64	(02)	25.5
West Virginia	60.7⊕*	0.71	(03)	22.6
Tennessee	60.0⊕*	0.45	(04)	21.2
Delaware	59.9⊕*	1.23	(05)	21.0
Low Five States				
Idaho	38.4⊕*	0.80	(47)	-22.4
Colorado	35.8⊕*	0.45	(48)	-27.7
New Mexico	34.2⊕*	0.63	(49)	-30.9
Hawaii	33.4⊕*	0.72	(50)	-32.5
Utah	21.6⊕*	0.52	(51)	-56.4

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	54.0⊕*	0.47	(16)	9.1	Montana	43.4⊕*	0.93	(39)	-12.3
Alaska	52.3*	1.85	(21)	5.7	Nebraska	43.0⊕*	0.68	(41)	-13.1
Arizona	44.8⊕*	0.44	(36)	-9.5	Nevada	57.6⊕*	0.85	(07)	16.4
Arkansas	62.1⊕*	0.64	(02)	25.5	New Hampshire	51.8	0.94	(23)	4.6
California	43.1⊕*	0.17	(40)	-12.9	New Jersey	47.5⊕	0.32	(33)	-4.0
Colorado	35.8⊕*	0.45	(48)	-27.7	New Mexico	34.2⊕*	0.63	(49)	-30.9
Connecticut	43.8⊕*	0.47	(38)	-11.5	New York	44.8⊕*	0.21	(37)	-9.5
Delaware	59.9⊕*	1.23	(05)	21.0	North Carolina	54.0⊕*	0.37	(15)	9.1
District of Columbia	52.6*	1.28	(20)	6.3	North Dakota	38.7⊕*	1.02	(46)	-21.8
Florida	51.1⊕	0.23	(24)	3.2	Ohio	54.3⊕*	0.29	(14)	9.7
Georgia	54.4⊕*	0.40	(13)	9.9	Oklahoma	55.8⊕*	0.54	(11)	12.7
Hawaii	33.4⊕*	0.72	(50)	-32.5	Oregon	50.5	0.53	(28)	2.0
Idaho	38.4⊕*	0.80	(47)	-22.4	Pennsylvania	48.6	0.25	(31)	-1.8
Illinois	50.9	0.28	(26)	2.8	Rhode Island	52.1*	0.93	(22)	5.3
Indiana	55.4⊕*	0.41	(12)	11.9	South Carolina	52.6⊕*	0.52	(19)	6.3
Iowa	45.6⊕*	0.51	(35)	-7.9	South Dakota	42.0⊕*	0.99	(43)	-15.2
Kansas	45.9⊕*	0.56	(34)	-7.3	Tennessee	60.0⊕*	0.45	(04)	21.2
Kentucky	67.9⊕*	0.56	(01)	37.2	Texas	50.9⊕	0.24	(27)	2.8
Louisiana	59.9⊕*	0.52	(06)	21.0	Utah	21.6⊕*	0.52	(51)	-56.4
Maine	56.3⊕*	0.88	(08)	13.7	Vermont	49.1	1.27	(29)	-0.8
Maryland	53.9⊕*	0.46	(17)	8.9	Virginia	52.9⊕*	0.40	(18)	6.9
Massachusetts	48.8	0.37	(30)	-1.4	Washington	48.4	0.42	(32)	-2.2
Michigan	51.0	0.31	(25)	3.0	West Virginia	60.7⊕*	0.71	(03)	22.6
Minnesota	40.0⊕*	0.41	(45)	-19.2	Wisconsin	41.7⊕*	0.38	(44)	-15.8
Mississippi	56.2⊕*	0.62	(09)	13.5	Wyoming	42.4⊕*	1.31	(42)	-14.3
Missouri	55.8⊕*	0.43	(10)	12.7					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.  
\* Absolute difference between state rate and total U.S. rate is 5% or more.  
⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XV-19  
LUNG AND BRONCHUS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1992-96

All Races, Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	70.8	0.11							
High Five States									
Kentucky	102.3⊕*	1.04	(01)	44.5					
Arkansas	96.7⊕*	1.20	(02)	36.6					
Tennessee	94.7⊕*	0.86	(03)	33.8					
Louisiana	92.8⊕*	0.98	(04)	31.1					
Mississippi	91.1⊕*	1.21	(05)	28.7					
Low Five States									
Idaho	51.1⊕*	1.36	(47)	-27.8					
Colorado	49.6⊕*	0.80	(48)	-29.9					
New Mexico	46.5⊕*	1.10	(49)	-34.3					
Hawaii	45.9⊕*	1.23	(50)	-35.2					
Utah	31.0⊕*	0.93	(51)	-56.2					
Alabama	86.3⊕*	0.91	(08)	21.9	Montana	57.8⊕*	1.56	(42)	-18.4
Alaska	65.3*	3.04	(33)	-7.8	Nebraska	63.1⊕*	1.21	(36)	-10.9
Arizona	61.1⊕*	0.75	(38)	-13.7	Nevada	71.4	1.40	(24)	0.8
Arkansas	96.7⊕*	1.20	(02)	36.6	New Hampshire	69.1	1.62	(27)	-2.4
California	55.8⊕*	0.29	(45)	-21.2	New Jersey	66.2⊕*	0.57	(30)	-6.5
Colorado	49.6⊕*	0.80	(48)	-29.9	New Mexico	46.5⊕*	1.10	(49)	-34.3
Connecticut	59.3⊕*	0.82	(40)	-16.2	New York	62.6⊕*	0.37	(37)	-11.6
Delaware	82.3⊕*	2.18	(12)	16.2	North Carolina	85.6⊕*	0.71	(09)	20.9
District of Columbia	79.3*	2.43	(15)	12.0	North Dakota	56.3⊕*	1.78	(44)	-20.5
Florida	70.2	0.40	(26)	-0.8	Ohio	78.5⊕*	0.53	(17)	10.9
Georgia	86.7⊕*	0.79	(07)	22.5	Oklahoma	83.5⊕*	0.99	(10)	17.9
Hawaii	45.9⊕*	1.23	(50)	-35.2	Oregon	64.3⊕*	0.88	(34)	-9.2
Idaho	51.1⊕*	1.36	(47)	-27.8	Pennsylvania	71.0	0.46	(25)	0.3
Illinois	73.4⊕	0.51	(22)	3.7	Rhode Island	74.9*	1.69	(20)	5.8
Indiana	81.5⊕*	0.76	(14)	15.1	South Carolina	83.4⊕*	1.00	(11)	17.8
Iowa	66.9*	0.91	(28)	-5.5	South Dakota	60.8⊕*	1.74	(39)	-14.1
Kansas	65.7*	1.00	(32)	-7.2	Tennessee	94.7⊕*	0.86	(03)	33.8
Kentucky	102.3⊕*	1.04	(01)	44.5	Texas	74.5⊕*	0.44	(21)	5.2
Louisiana	92.8⊕*	0.98	(04)	31.1	Utah	31.0⊕*	0.93	(51)	-56.2
Maine	78.5*	1.56	(18)	10.9	Vermont	65.9*	2.18	(31)	-6.9
Maryland	75.1⊕*	0.82	(19)	6.1	Virginia	78.6⊕*	0.74	(16)	11.0
Massachusetts	66.5⊕*	0.66	(29)	-6.1	Washington	63.3⊕*	0.71	(35)	-10.6
Michigan	72.4	0.56	(23)	2.3	West Virginia	87.2⊕*	1.29	(06)	23.2
Minnesota	54.6⊕*	0.70	(46)	-22.9	Wisconsin	58.8⊕*	0.67	(41)	-16.9
Mississippi	91.1⊕*	1.21	(05)	28.7	Wyoming	56.5⊕*	2.24	(43)	-20.2
Missouri	82.0⊕*	0.77	(13)	15.8					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.  
\* Absolute difference between state rate and total U.S. rate is 5% or more.  
⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XV-20  
LUNG AND BRONCHUS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1992-96

All Races, Females

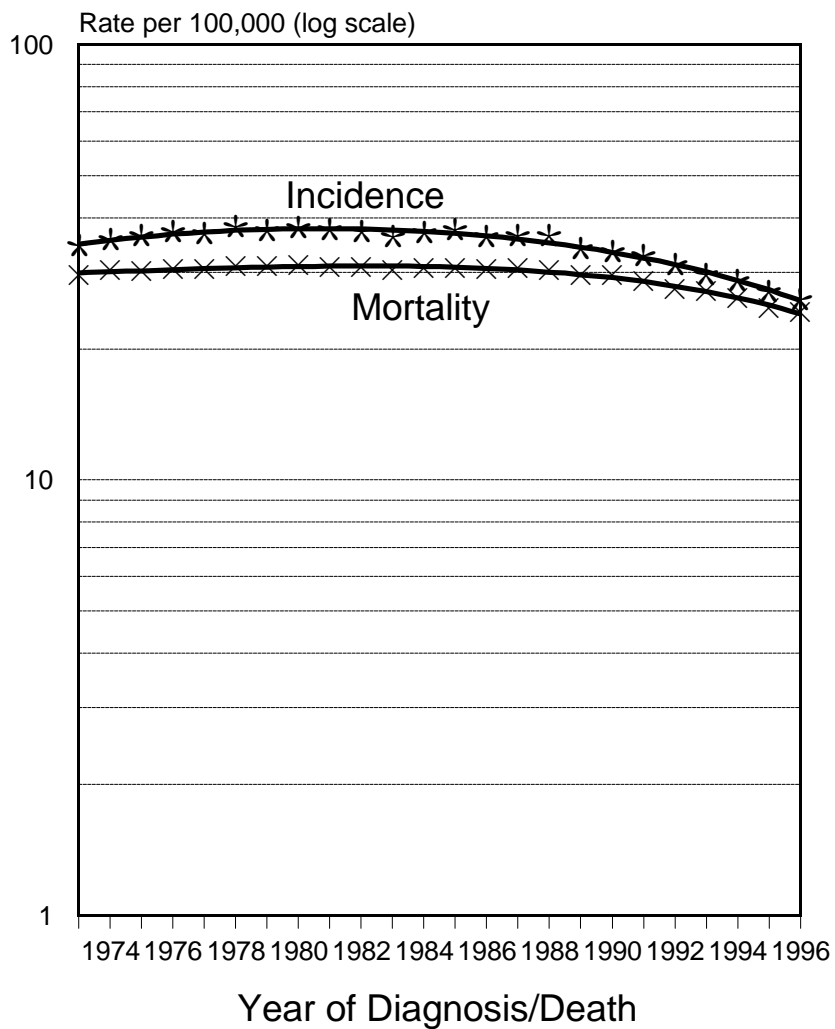
State	Rate	SE	Rank	PD
TOTAL U.S.	33.8	0.07		
High Five States				
Nevada	45.7 $\oplus$ *	1.06	(01)	35.2
Delaware	43.2 $\oplus$ *	1.41	(02)	27.8
Kentucky	42.7 $\oplus$ *	0.60	(03)	26.3
West Virginia	41.5 $\oplus$ *	0.80	(04)	22.8
Alaska	40.5*	2.24	(05)	19.8
Low Five States				
Colorado	25.5 $\oplus$ *	0.51	(47)	-24.6
North Dakota	24.7 $\oplus$ *	1.15	(48)	-26.9
New Mexico	24.5 $\oplus$ *	0.73	(49)	-27.5
Hawaii	22.3 $\oplus$ *	0.80	(50)	-34.0
Utah	14.0 $\oplus$ *	0.58	(51)	-58.6

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	30.9 $\oplus$	0.48	(39)	-8.6	Montana	32.0	1.10	(32)	-5.3
Alaska	40.5*	2.24	(05)	19.8	Nebraska	27.6 $\oplus$ *	0.74	(45)	-18.3
Arizona	31.8	0.50	(33)	-5.9	Nevada	45.7 $\oplus$ *	1.06	(01)	35.2
Arkansas	35.6	0.66	(19)	5.3	New Hampshire	39.2*	1.12	(08)	16.0
California	33.5	0.20	(27)	-0.9	New Jersey	34.2	0.36	(26)	1.2
Colorado	25.5 $\oplus$ *	0.51	(47)	-24.6	New Mexico	24.5 $\oplus$ *	0.73	(49)	-27.5
Connecticut	33.1	0.56	(29)	-2.1	New York	32.2 $\oplus$	0.23	(31)	-4.7
Delaware	43.2 $\oplus$ *	1.41	(02)	27.8	North Carolina	31.3 $\oplus$	0.38	(35)	-7.4
District of Columbia	34.6	1.38	(22)	2.4	North Dakota	24.7 $\oplus$ *	1.15	(48)	-26.9
Florida	35.9 $\oplus$	0.26	(18)	6.2	Ohio	36.7 $\oplus$	0.32	(11)	8.6
Georgia	31.6 $\oplus$	0.41	(34)	-6.5	Oklahoma	35.1	0.58	(21)	3.8
Hawaii	22.3 $\oplus$ *	0.80	(50)	-34.0	Oregon	40.0 $\oplus$ *	0.65	(06)	18.3
Idaho	28.0 $\oplus$ *	0.95	(44)	-17.2	Pennsylvania	32.5	0.27	(30)	-3.8
Illinois	34.6	0.31	(24)	2.4	Rhode Island	36.3	1.05	(16)	7.4
Indiana	36.5 $\oplus$	0.46	(13)	8.0	South Carolina	30.3 $\oplus$ *	0.52	(40)	-10.4
Iowa	30.0 $\oplus$ *	0.57	(41)	-11.2	South Dakota	27.1 $\oplus$ *	1.11	(46)	-19.8
Kansas	31.0	0.63	(38)	-8.3	Tennessee	34.6	0.46	(23)	2.4
Kentucky	42.7 $\oplus$ *	0.60	(03)	26.3	Texas	33.2	0.26	(28)	-1.8
Louisiana	36.2	0.54	(17)	7.1	Utah	14.0 $\oplus$ *	0.58	(51)	-58.6
Maine	39.8 $\oplus$ *	1.00	(07)	17.8	Vermont	36.4	1.49	(15)	7.7
Maryland	38.4 $\oplus$ *	0.52	(09)	13.6	Virginia	34.3	0.43	(25)	1.5
Massachusetts	36.6 $\oplus$	0.44	(12)	8.3	Washington	37.0 $\oplus$	0.50	(10)	9.5
Michigan	35.3	0.35	(20)	4.4	West Virginia	41.5 $\oplus$ *	0.80	(04)	22.8
Minnesota	29.1 $\oplus$ *	0.48	(42)	-13.9	Wisconsin	28.8 $\oplus$ *	0.43	(43)	-14.8
Mississippi	31.1	0.62	(37)	-8.0	Wyoming	31.2	1.56	(36)	-7.7
Missouri	36.4 $\oplus$	0.47	(14)	7.7					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.  
\* Absolute difference between state rate and total U.S. rate is 10% or more.  
 $\oplus$  Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

# SEER Incidence and U.S. Mortality Lung, Male, Under 65 Years of Age By Race

## White



## Black

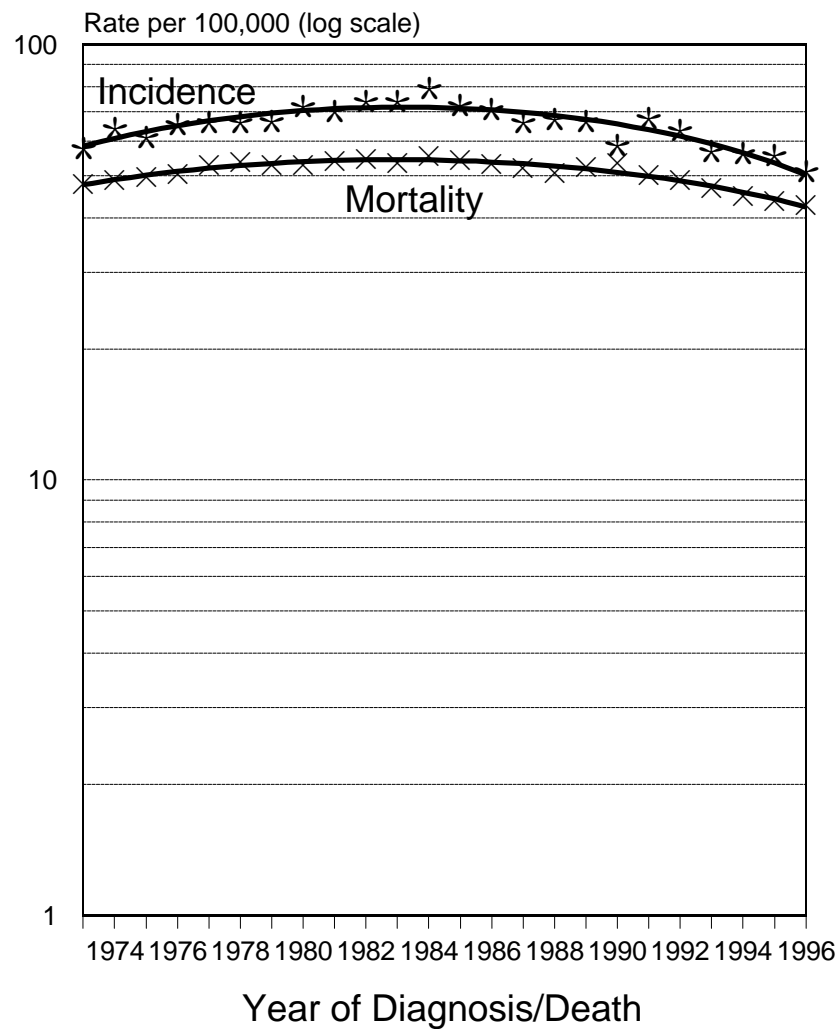


Figure XV-1

# SEER Incidence and U.S. Mortality Lung, Female, Under 65 Years of Age By Race

## White

## Black

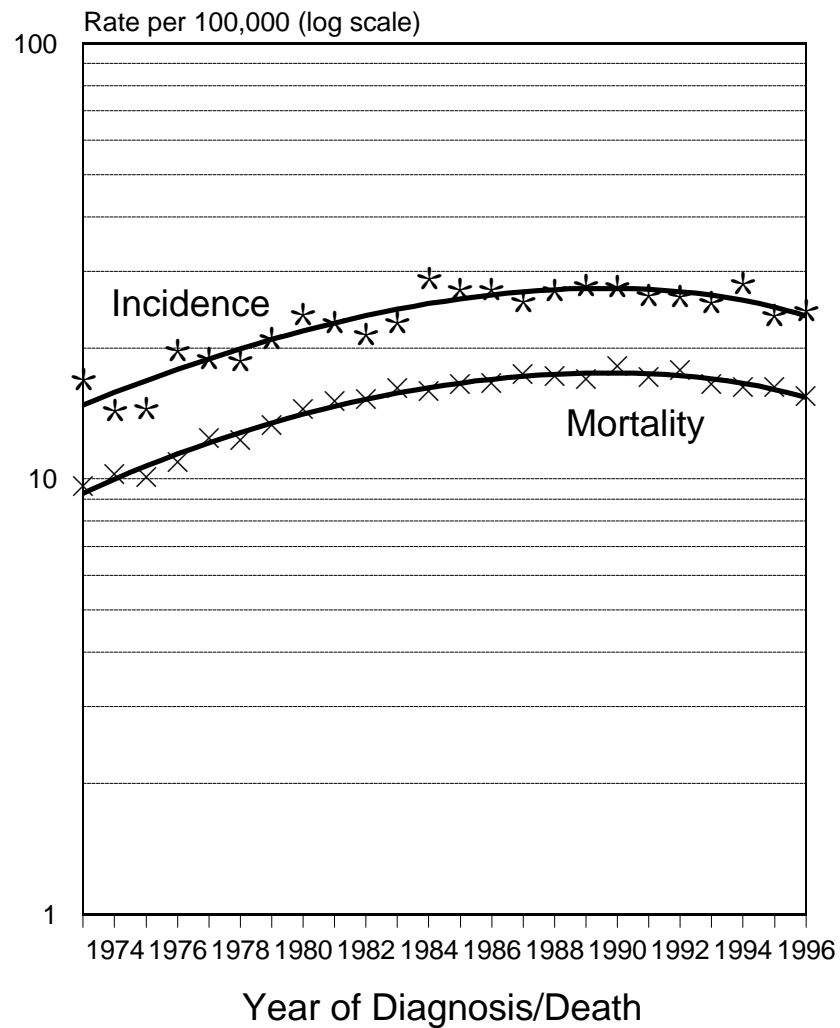
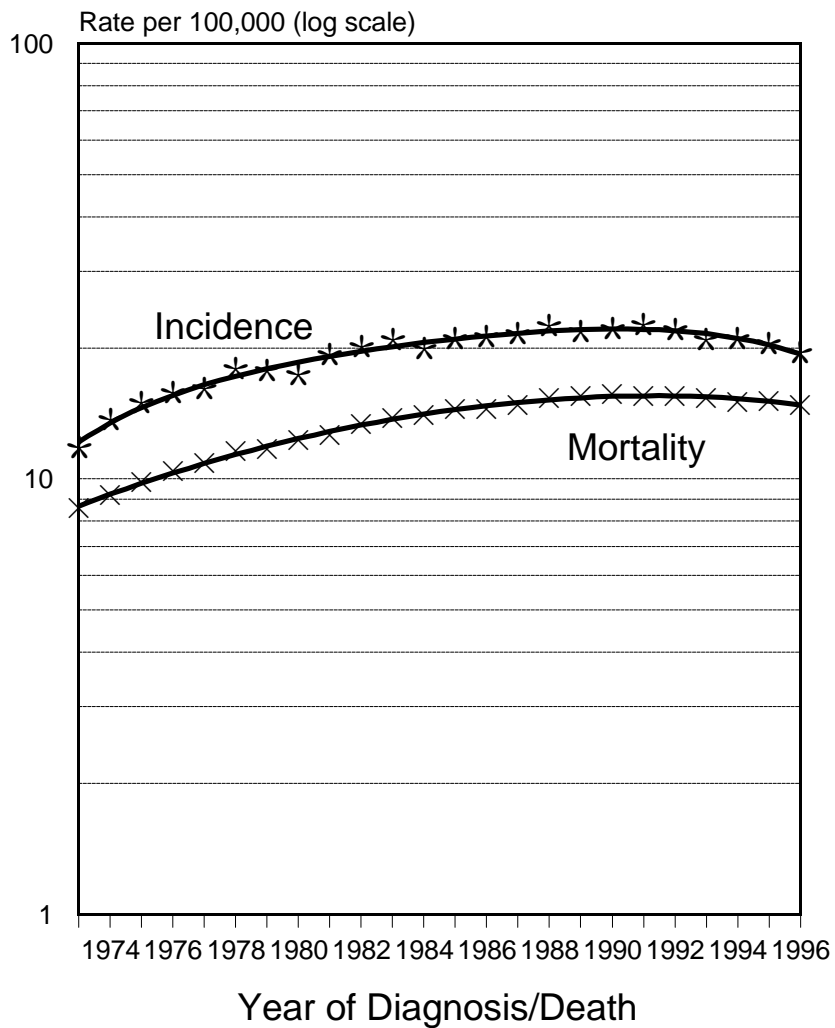


Figure XV-2

# SEER Incidence and U.S. Mortality Lung, Male, Ages 65 and Over By Race

## White

## Black

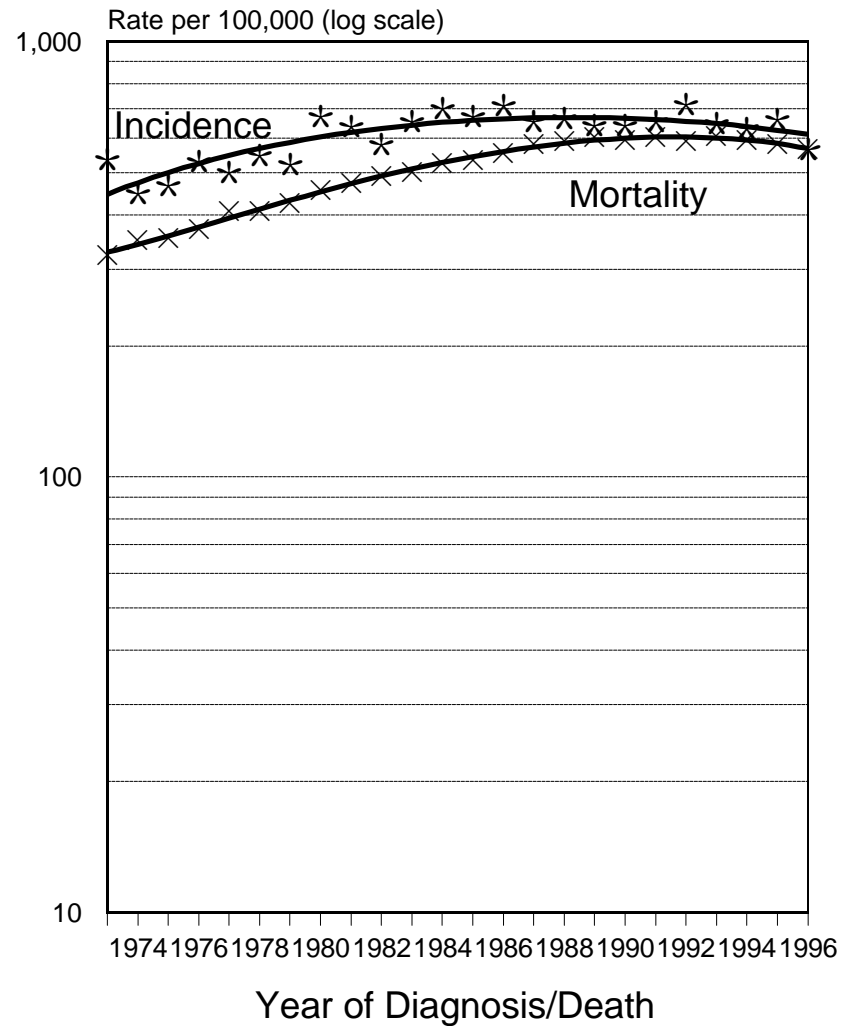
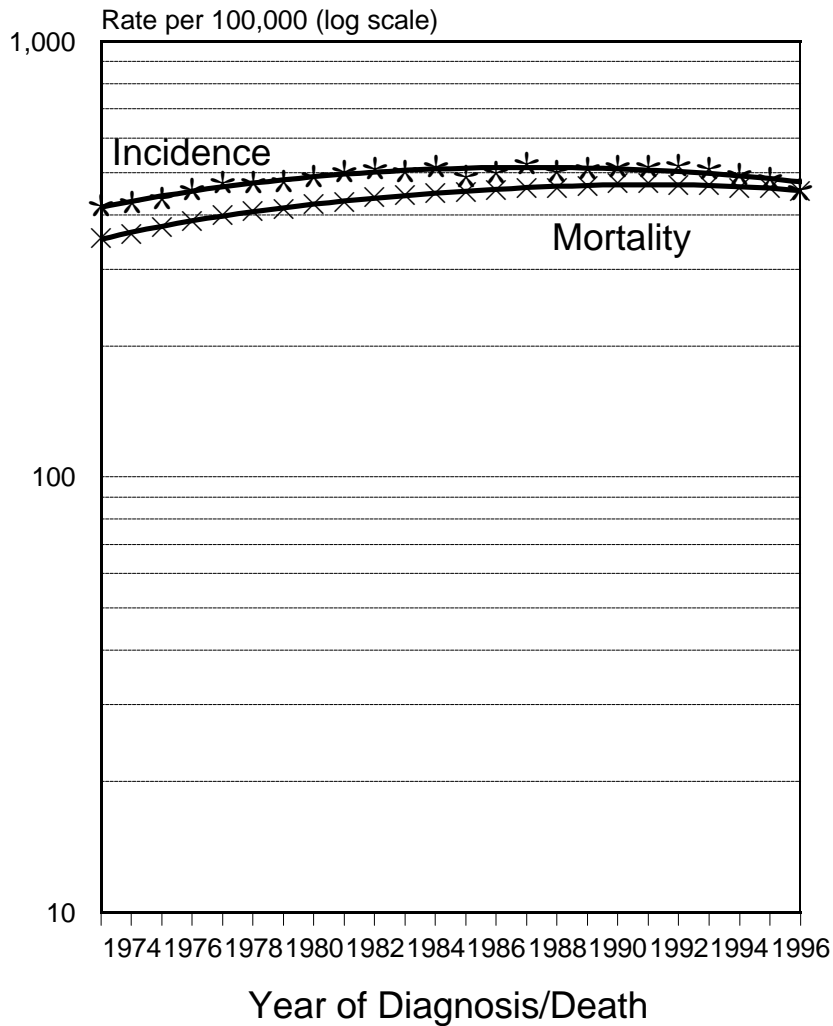


Figure XV-3

# SEER Incidence and U.S. Mortality Lung, Female, Ages 65 and Over By Race

## White

## Black

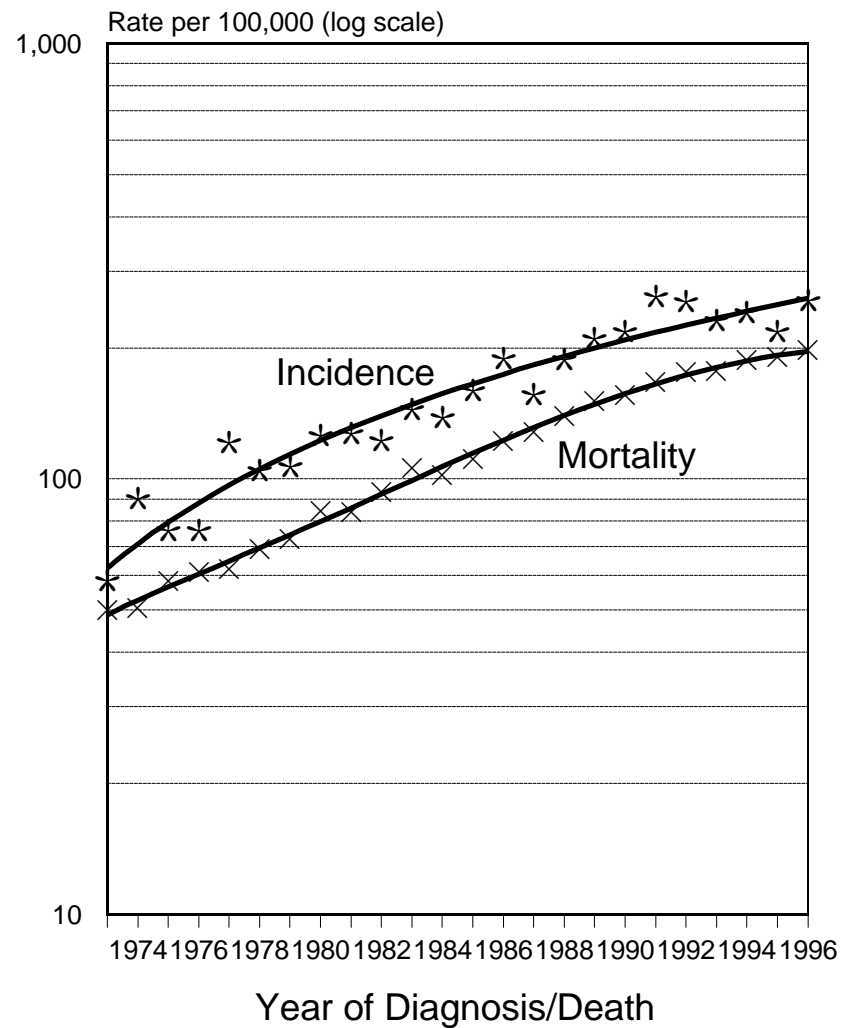
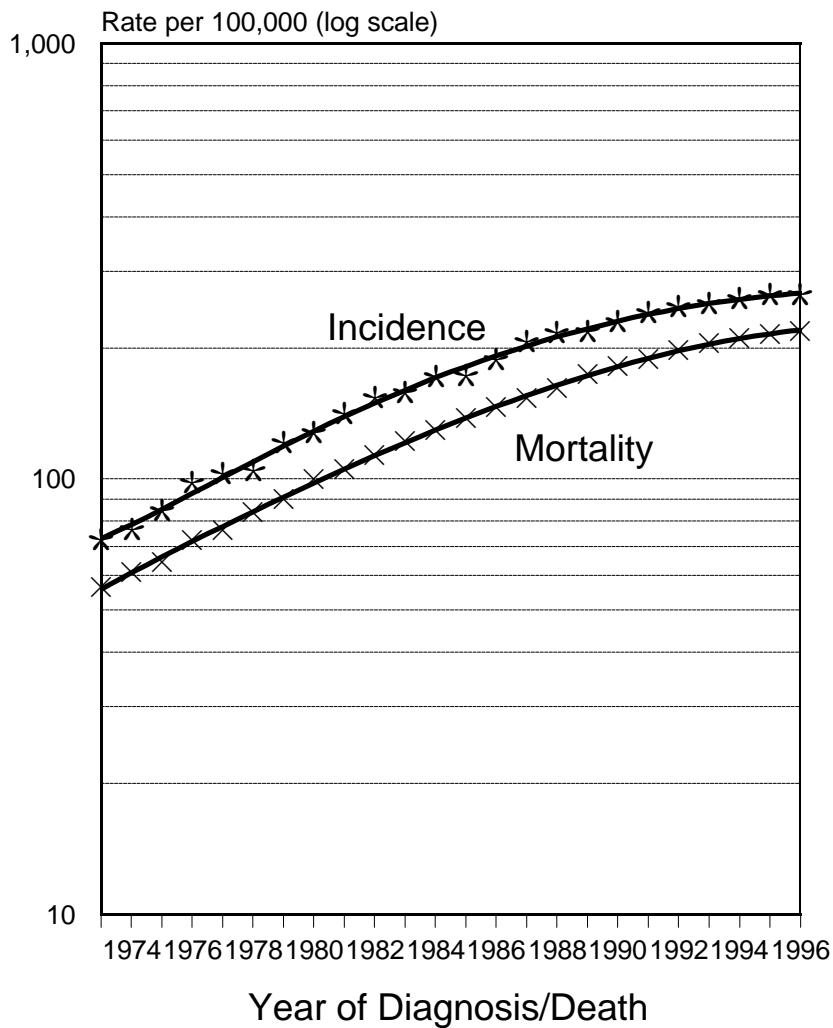


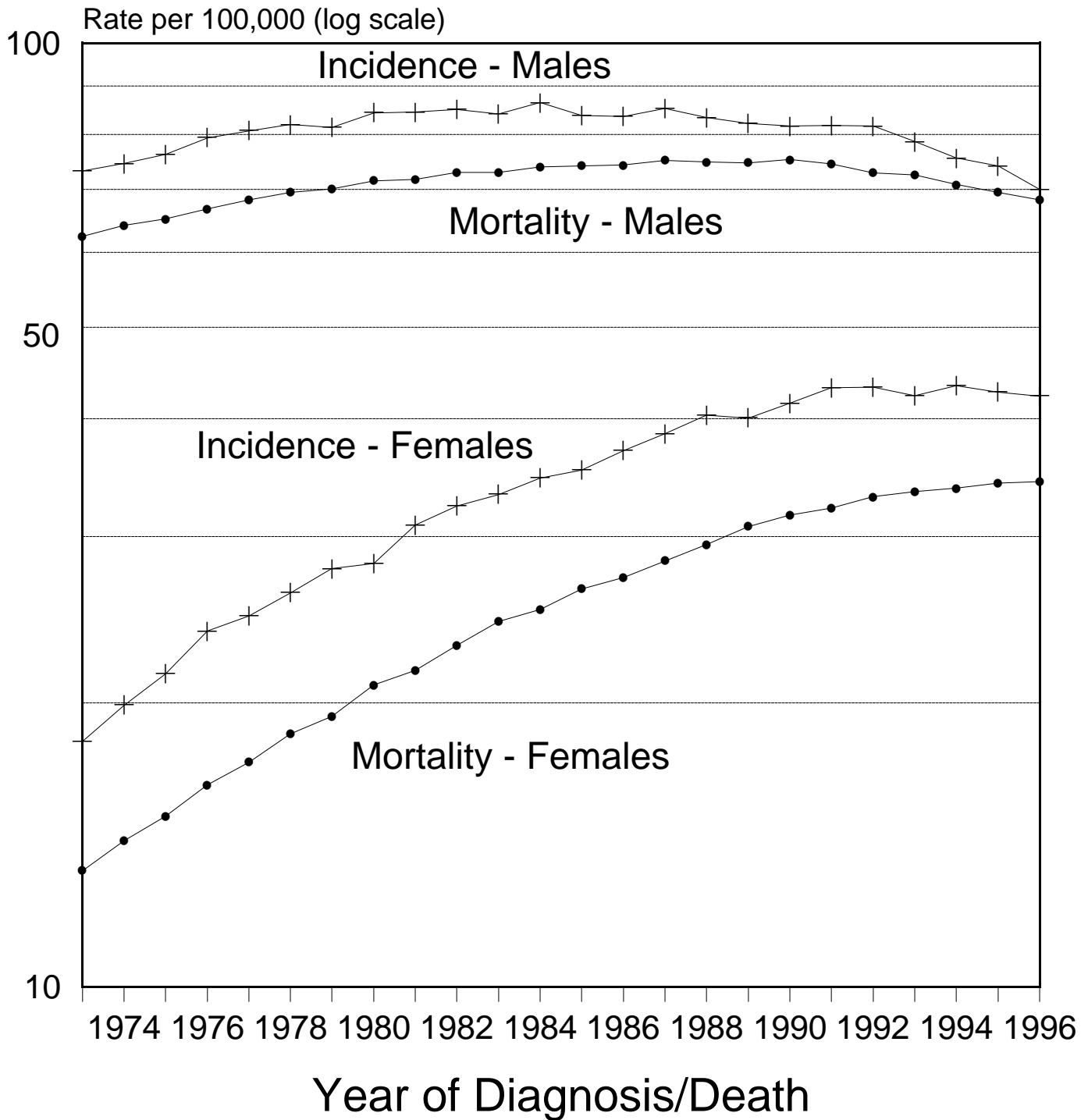
Figure XV-4



# Cancer of the Lung & Bronchus

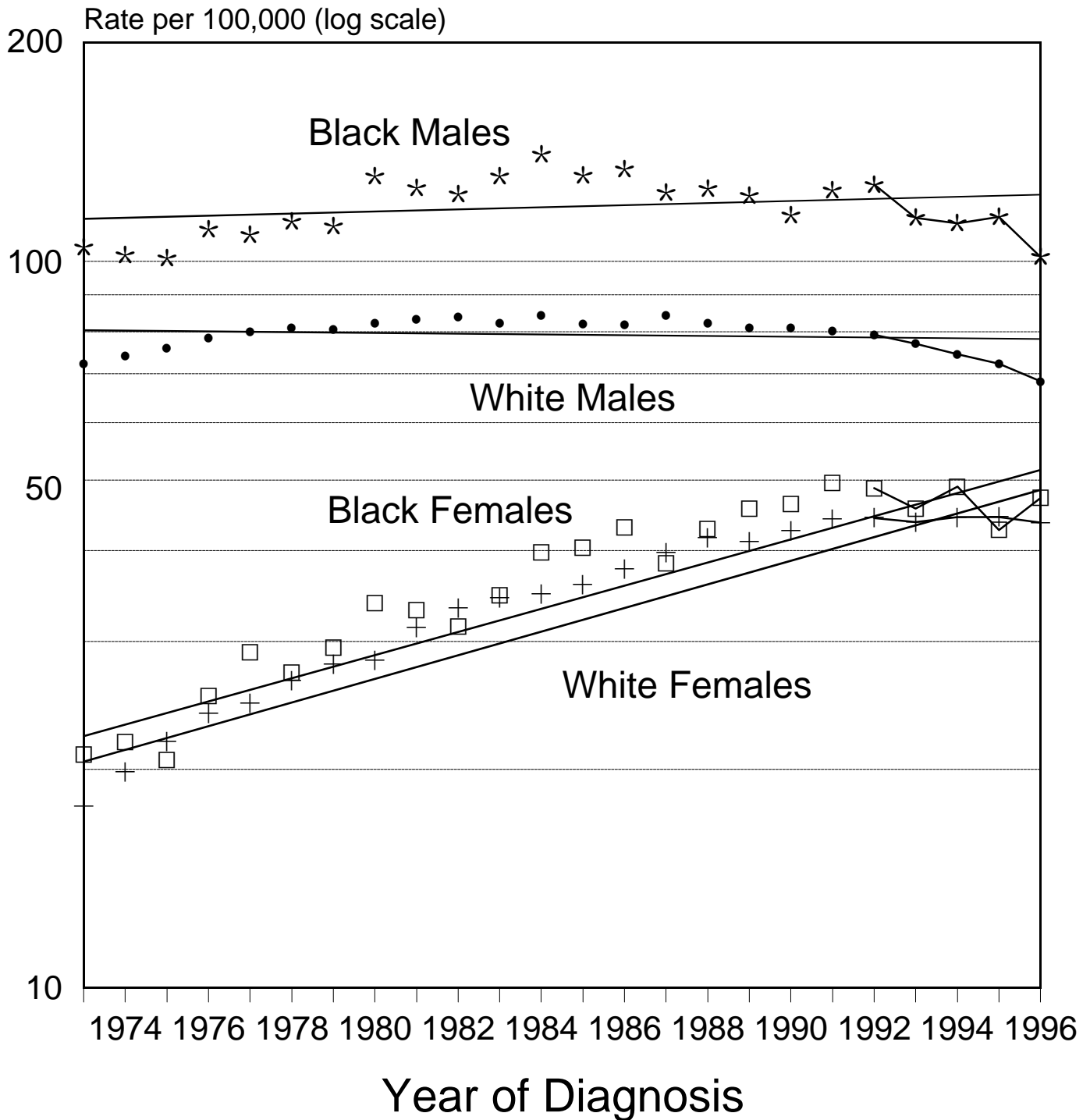
## SEER Incidence & U.S. Mortality Rates, 1973-1996

### By Sex, All Races



Age-adjusted to 1970 Standard

# Cancer of the Lung & Bronchus SEER Incidence, 1973-1996 By Sex and Race



Age-adjusted to 1970 Standard  
Recent trend, 1992-1996, highlighted