### 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 |

#### INCIDENCE TRENDS (expressed in percents)$^*$:

1973-95

| All Ages |           |           |           |           |           |           |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|
|          | Percent Change (PC) | 30.8 | 0.9 | 125.6 | 33.1 | -0.3 | 136.0 | 26.7 | 10.3 | 115.9 |
|          | Est. Annual PC (EAPC) | 1.3* | 0.1 | 3.9* | 1.4* | 0.0 | 4.1* | 1.4* | 0.6* | 4.0* |
| Under 65 | Percent Change (PC) | 2.1 | -19.0 | 57.6 | 2.7 | -20.9 | 62.6 | 5.9 | -8.6 | 66.8 |
|          | Est. Annual PC (EAPC) | 0.1 | -0.9* | 2.1* | 0.1 | -1.0* | 2.2* | 0.4 | -0.3 | 2.6* |
| 65 and over | Percent Change (PC) | 60.1 | 16.7 | 231.0 | 63.2 | 15.3 | 250.6 | 54.2 | 31.6 | 210.1 |
|          | Est. Annual PC (EAPC) | 2.4* | 0.8* | 6.0* | 2.4* | 0.7* | 6.2* | 2.5* | 1.6* | 6.2* |

1975-79 - ALL AGES

| 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 |

1991-95 - ALL AGES

| Percent Change (PC) | -5.4 | -9.0 | -0.6 | -4.7 | -8.6 | 0.1 | -9.2 | -10.5 | -6.8 |
| Est. Annual PC (EAPC) | -1.8* | -2.9* | -0.3* | -1.6* | -2.9* | 0.0* | -3.1* | -3.1* | -2.9* |

#### MORTALITY TRENDS (expressed in percents)$^*$:

1973-95

| All Ages |           |           |           |           |           |           |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|
|          | Percent Change (PC) | 39.7 | 10.9 | 146.4 | 40.6 | 9.9 | 150.6 | 43.3 | 27.7 | 139.6 |
|          | Est. Annual PC (EAPC) | 1.7* | 0.6* | 4.5* | 1.7* | 0.9* | 4.5* | 1.9* | 1.3* | 4.4* |
| Under 65 | Percent Change (PC) | 5.2 | -14.6 | 66.7 | 6.5 | -14.9 | 70.1 | 4.4 | -8.3 | 64.0 |
|          | Est. Annual PC (EAPC) | 0.4* | -0.6* | 2.5* | 0.4* | -0.6* | 2.6* | 0.3 | -0.3 | 2.6* |
| 65 and over | Percent Change (PC) | 73.9 | 31.6 | 258.2 | 73.1 | 28.8 | 261.3 | 100.1 | 74.9 | 276.4 |
|          | Est. Annual PC (EAPC) | 2.7* | 1.3* | 6.4* | 2.7* | 1.2* | 6.5* | 3.5* | 2.9* | 6.7* |

1975-79 - ALL AGES

| 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* |

1991-95 - ALL AGES

| Percent Change (PC) | -1.2 | -4.7 | 4.2 | -0.7 | -4.5 | 4.6 | -3.1 | -5.3 | 2.0 |
| Est. Annual PC (EAPC) | -0.4* | -1.6* | 1.5* | -0.3* | -1.6* | 1.6* | -1.0* | -1.8* | 0.8* |

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 1991-95 is significantly different from the EAPC for 1975-79 (p<.05).

$^*$ The EAPC for 1991-95 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 |

#### INCIDENCE TRENDS FOR SMALL CELL (expressed in percents)$^\dagger$:

**1973-95**

**All Ages**
- Percent Change (PC): 61.2, 21.2, 160.7
- Est. Annual PC (EAPC): 2.3*, 0.8, 4.7*

**Under 65**
- Percent Change (PC): 17.7, -5.9, 67.3
- Est. Annual PC (EAPC): 0.8, -0.4, 2.5*

**65 and over**
- Percent Change (PC): 123.5, 50.7, 376.5
- Est. Annual PC (EAPC): 3.9*, 1.9*, 7.7*

**1975-79 - ALL AGES**
- Percent Change (PC): 26.3, 22.2, 35.2
- Est. Annual PC (EAPC): 7.6*, 6.6*, 9.9*

**1991-95 - ALL AGES**
- Percent Change (PC): -11.1, -13.9, -8.2
- Est. Annual PC (EAPC): -3.9**, -4.5**, -3.3***

#### INCIDENCE TRENDS FOR NON-SMALL CELL (expressed in percents)$^\dagger$:

**1973-95**

**All Ages**
- Percent Change (PC): 26.6, -1.7, 119.5
- Est. Annual PC (EAPC): 1.2*, 0.0, 3.8*

**Under 65**
- Percent Change (PC): -0.6, -21.0, 55.6
- Est. Annual PC (EAPC): 0.0, -1.0*, 2.0*

**65 and over**
- Percent Change (PC): 52.9, 13.0, 212.3
- Est. Annual PC (EAPC): 2.1*, 0.6*, 5.7*

**1975-79 - ALL AGES**
- Percent Change (PC): 5.9, 2.7, 16.1
- Est. Annual PC (EAPC): 2.1*, 0.9, 5.6*

**1991-95 - ALL AGES**
- Percent Change (PC): -4.3, -8.2, 1.1
- Est. Annual PC (EAPC): -1.3**, -2.7**, 0.4***

---

$^\dagger$ The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.

- The EAPC is significantly different from zero (p<.05).
- The EAPC for 1991-95 is significantly different from the EAPC for 1975-79 (p<.05).
- The EAPC for 1991-95 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

| AGE-ADJUSTED RATES | YEAR OF DIAGNOSIS: |
|--------------------|-------------------|
|                    | 1973              |
|                    | 1974              |
|                    | 1975              |
|                    | 1976              |
|                    | 1977              |
|                    | 1978              |
|                    | 1979              |
|                    | 1980              |
|                    | 1981              |
|                    | 1982              |
|                    | 1983              |
|                    | 1984              |
|                    | 1985              |
|                    | 1986              |
|                    | 1987              |
|                    | 1988              |
|                    | 1989              |
|                    | 1990              |
|                    | 1991              |
|                    | 1992              |
|                    | 1993              |
|                    | 1994              |
|                    | 1995              |

| AGE-ADJUSTED RATES, 1991-95 | AGE AT DIAGNOSIS: |
|-----------------------------|-------------------|
|                             | All ages          |
|                             | Under 65          |
|                             | 65 and over       |
|                             | All ages (world std.)|
|                             | 0-4               |
|                             | 5-9               |
|                             | 10-14             |
|                             | 15-19             |
|                             | 20-24             |
|                             | 25-29             |
|                             | 30-34             |
|                             | 35-39             |
|                             | 40-44             |
|                             | 45-49             |
|                             | 50-54             |
|                             | 55-59             |
|                             | 60-64             |
|                             | 65-69             |
|                             | 70-74             |
|                             | 75-79             |
|                             | 80-84             |
|                             | 85+               |

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

| Year of Diagnosis | All Races | Whites | Blacks |
|-------------------|----------|--------|--------|
|                   | Total    | Males  | Females| Total    | Males  | Females|
|                   |          |        |        |          |        |        |
| 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    | 3.7    | 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   | 4.3    |
| 1984              | 9.6      | 13.3   | 6.7    | 9.9      | 13.7   | 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     | 13.3   | 7.7    | 10.6     | 13.6   | 8.2    | 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    | 8.5     | 12.3   | 5.7    |
| 1991              | 10.0     | 12.2   | 8.4    | 10.4     | 12.5   | 8.9    | 11.0    | 13.9   | 9.0    |
| 1992              | 9.3      | 11.6   | 7.6    | 9.7      | 12.0   | 8.1    | 9.0     | 11.6   | 7.0    |
| 1993              | 8.9      | 10.7   | 7.4    | 9.3      | 11.0   | 8.0    | 8.5     | 11.7   | 6.3    |
| 1994              | 8.6      | 10.1   | 7.5    | 9.1      | 10.3   | 8.1    | 8.9     | 11.9   | 6.7    |
| 1995              | 8.5      | 10.4   | 7.1    | 9.0      | 10.7   | 7.7    | 8.0     | 11.3   | 5.7    |

AGE-ADJUSTED RATES, 1991-95

| Age at Diagnosis | All ages | Under 65 | 65 and over |
|------------------|----------|----------|-------------|
|                   | Total    |          | Total       |          |
|                   |          |          | All ages    |          |
|                   |          |          | (world std.)|          |
| 0-4               | 0.0      | 0.0      | 11.0        | 6.1      |
| 5-9               | 0.0      | 0.0      | 0.0         | 0.0      |
| 10-14             | 0.0      | 0.0      | 0.0         | 0.0      |
| 15-19             | 0.0      | 0.0      | 0.0         | 0.0      |
| 20-24             | 0.0      | 0.0      | 0.0         | 0.0      |
| 25-29             | 0.0      | 0.0      | 0.0         | 0.0      |
| 30-34             | 0.0      | 0.0      | 0.1         | 0.1      |
| 35-39             | 0.0      | 0.0      | 0.1         | 0.1      |
| 40-44             | 0.0      | 0.0      | 1.8         | 1.7      |
| 45-49             | 4.9      | 5.8      | 5.2         | 4.1      |
| 50-54             | 12.9     | 14.2     | 13.3        | 11.7     |
| 55-59             | 23.9     | 27.1     | 25.1        | 21.0     |
| 60-64             | 38.0     | 42.9     | 40.0        | 33.6     |
| 65-69             | 54.3     | 65.5     | 57.9        | 45.0     |
| 70-74             | 58.5     | 72.1     | 61.2        | 48.1     |
| 75-79             | 57.9     | 73.8     | 60.1        | 47.0     |
| 80-84             | 42.3     | 62.5     | 43.6        | 30.9     |
| 85+               | 17.4     | 37.2     | 17.5        | 9.6      |

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-5

**NON-SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)**

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

| YEAR OF DIAGNOSIS | All Races | Whites | Blacks |
|-------------------|----------|--------|--------|
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |
|                   | Total    | Males  | Females |

#### AGE-ADJUSTED RATES

**YEAR OF DIAGNOSIS:**

- **1973:** 37.3 65.0 15.6 36.5 64.3 15.1 51.9 92.8 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 69.6 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 45.0 69.1 27.5 67.7 117.7 30.2
- **1984:** 47.2 73.1 27.9 45.8 70.5 27.8 73.0 126.6 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 46.1 68.0 30.3 70.0 118.0 35.3
- **1987:** 49.0 73.0 31.1 48.7 71.7 31.7 65.8 111.3 32.7
- **1988:** 48.6 70.0 32.7 48.2 68.6 33.3 68.3 110.1 37.9
- **1989:** 48.1 69.4 32.2 47.6 68.0 32.8 67.7 108.4 38.0
- **1990:** 49.2 69.8 34.0 48.8 68.5 34.4 68.2 106.4 41.2
- **1991:** 49.6 69.7 34.8 49.0 67.9 35.3 70.9 112.2 40.8
- **1992:** 50.5 70.3 35.7 49.5 67.5 36.4 73.5 117.1 42.0
- **1993:** 49.1 68.1 34.9 48.7 66.2 35.8 66.7 104.0 39.7
- **1994:** 48.5 65.5 35.9 48.2 64.2 36.4 67.4 101.4 42.6
- **1995:** 47.3 63.1 35.4 46.9 60.8 36.5 64.9 103.4 37.2

#### AGE-ADJUSTED RATES, 1991-95

**AGE AT DIAGNOSIS:**

- **All ages:** 49.0 67.3 35.3 48.4 65.3 36.1 68.6 107.5 40.4
- **Under 65:** 21.7 26.8 17.0 20.9 24.8 17.2 36.6 54.1 22.4
- **65 and over:** 298.1 436.8 202.5 300.0 434.7 208.3 360.3 594.9 204.9

#### All ages (world std.)

- **Total:** 38.4 51.8 28.1 37.8 49.9 28.6 55.6 85.8 33.1

#### AGE-SPECIFIC RATES, 1991-95

**AGE AT DIAGNOSIS:**

- **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 0.0 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 0.2 0.4 0.5 0.9 0.2
- **25-29:** 0.6 0.7 0.5 0.6 0.7 0.4 1.0 1.1 0.9
- **30-34:** 1.8 2.0 1.6 1.6 1.9 1.4 3.0 3.3 2.8
- **35-39:** 4.3 4.9 3.8 3.8 4.0 3.5 9.3 12.1 6.9
- **40-44:** 11.1 13.2 9.0 9.5 10.8 8.1 25.1 35.0 16.5
- **45-49:** 28.5 31.7 25.4 26.0 27.7 24.2 56.4 73.3 41.6
- **50-54:** 63.2 74.8 52.1 58.6 65.7 51.6 122.8 179.4 74.5
- **55-59:** 113.4 138.1 90.3 109.8 127.8 92.6 189.5 287.4 110.9
- **60-64:** 183.7 239.7 131.9 182.9 251.2 138.4 268.6 410.5 156.2
- **65-69:** 268.2 365.1 187.9 268.7 357.8 193.8 353.9 539.5 211.4
- **70-74:** 318.6 447.5 219.2 319.5 439.3 227.0 418.4 694.0 226.7
- **75-79:** 342.1 503.8 229.4 349.5 478.1 237.3 349.8 609.6 187.1
- **80-84:** 315.1 518.8 200.6 318.0 526.8 203.6 339.4 611.8 195.5
- **85+:** 224.6 425.9 145.2 221.2 430.9 142.2 239.3 431.1 156.1

---

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

8 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

| AGE-ADJUSTED RATES | YEAR OF DEATH: | All Races | Whites | Blacks |
|--------------------|----------------|----------|--------|--------|
|                    |                | Total | Males | Females | Total | Males | Females | Total | Males | Females |
|                    | 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  | 28.8   | 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  | 75.3  | 31.6   | 49.4  | 73.2  | 32.0   | 62.6  | 107.1 | 31.8    |
|                    | 1991           | 50.1  | 74.5  | 32.2   | 49.5  | 72.5  | 32.6   | 61.7  | 104.7 | 32.0    |
|                    | 1992           | 50.0  | 72.9  | 33.1   | 49.4  | 71.0  | 33.5   | 61.5  | 102.5 | 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  | 68.0  | 34.8   | 59.4  | 97.1  | 33.5    |

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

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 |
| 5-YR RELATIVE SURVIVAL RATES | | | | | | |
| YEAR OF DIAGNOSIS: | | | | | | |
| 1960-63<sup>a</sup> | - | - | - | 7 | 7 | 6 |
| 1970-73<sup>b</sup> | 10.4 | 12.1 | 17.2 | 13.7 | 12.1 | 17.3 |
| 1977-79<sup>c</sup> | 13.4 | 12.1 | 16.1 | 13.5 | 12.2 | 16.2 |
| 1980-82<sup>d</sup> | 13.8 | 12.0 | 16.9 | 14.0 | 12.2 | 17.1 |
| 1983-85<sup>e</sup> | 13.5 | 12.3 | 15.5 | 13.8 | 12.4 | 15.9 |
| 1989-94<sup>f</sup> | 14.1<sup>S</sup> | 12.6<sup>S</sup> | 16.2<sup>S</sup> | 14.5<sup>S</sup> | 13.0<sup>S</sup> | 16.5<sup>S</sup> |
| 1989-94<sup>g</sup> | 14.1 | 12.6 | 16.2 | 14.5 | 13.0 | 16.5 |
| ALL STAGES | 100% | 100% | 100% | 100% | 100% | 100% |
| LOCALIZED | 50.2 | 47.2 | 54.0 | 50.8 | 47.7 | 54.4 |
| REGIONAL | 20.0 | 18.4 | 22.4 | 20.5 | 19.2 | 22.5 |
| DISTANT | 2.2 | 1.9 | 2.6 | 2.1 | 1.7 | 2.7 |
| UNSTAGED | 7.6 | 6.4 | 9.2 | 7.6 | 6.4 | 9.0 |
| STAGE DISTRIBUTION (%) 1989-94<sup>h</sup> | | | | | | |
| ALL STAGES | 73,722 | 44,535 | 29,187 | 62,486 | 37,174 | 25,311 |
| Percent | 100% | 100% | 100% | 100% | 100% | 100% |
| LOCALIZED | 15 | 14 | 16 | 15 | 14 | 16 |
| REGIONAL | 23 | 24 | 22 | 23 | 24 | 22 |
| DISTANT | 48 | 48 | 47 | 47 | 48 | 46 |
| UNSTAGED | 15 | 14 | 15 | 15 | 14 | 15 |
| 5-YR RELATIVE SURVIVAL RATES, 1989-94<sup>i</sup> | | | | | | |
| AGE AT DIAGNOSIS: | | | | | | |
| <45 | 21.4 | 17.2 | 27.1 | 23.1 | 18.3 | 29.2 |
| 45-54 | 16.9 | 15.1 | 19.4 | 17.6 | 15.7 | 20.1 |
| 55-64 | 15.4 | 13.8 | 17.9 | 15.8 | 14.4 | 17.9 |
| 65-74 | 13.9 | 12.7 | 15.6 | 14.2 | 12.8 | 16.1 |
| 75+ | 9.7 | 8.3 | 11.4 | 10.1 | 8.6 | 11.9 |
| Under 65 | 16.3 | 14.4 | 19.1 | 16.8 | 15.0 | 19.3 |
| 65 and over | 12.5 | 11.3 | 14.1 | 12.8 | 11.5 | 14.5 |

<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 1995.
<sup>c</sup> The difference in rates between 1974-76 and 1989-94 is statistically significant (p<.05).
<sup>d</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 1995.
<sup>e</sup> The standard error of the survival rate is greater than 10 percentage points.
<sup>f</sup> The standard error of the survival rate is between 5 and 10 percentage points.
<sup>g</sup> 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 |                      |                      |                      |
|----------------------|-----------|----------------------|----------------------|----------------------|
|                      | Total     | Males | Females | Total     | Males | Females | Total     | Males | Females |
| YEAR OF DIAGNOSIS:   |           |       |         |           |       |         |           |       |         |
| 1974-76              | 3.6       | 3.0   | 5.0     | 3.6       | 2.9   | 5.0     | 3.4       | 3.6   | 3.1     |
| 1977-79              | 4.5       | 3.3   | 6.8     | 4.5       | 3.3   | 6.8     | 3.8       | 3.4   | 4.8     |
| 1980-82              | 4.7       | 3.9   | 6.2     | 4.8       | 4.1   | 6.2     | 4.0       | 3.0   | 6.4     |
| 1983-85              | 4.8       | 3.6   | 6.7     | 4.9       | 3.7   | 6.7     | 4.7       | 2.6   | 8.6     |
| 1986-88              | 5.1       | 4.0   | 6.5     | 5.3       | 4.1   | 6.8     | 4.0       | 3.4   | 4.6     |
| 1989-94              | 6.0$      | 5.1$  | 7.0$    | 6.0$      | 5.0$  | 7.2$    | 5.2$      | 5.5$  | 4.1     |
|                      |           |       |         |           |       |         |           |       |         |
| 1989-94              |           |       |         |           |       |         |           |       |         |
| ALL STAGES           | 6.0       | 5.1   | 7.0     | 6.0       | 5.0   | 7.2     | 5.2       | 5.5   | 4.1     |
| LOCALIZED            | 18.3      | 17.6  | 19.2    | 17.8      | 16.7  | 19.1    | 16.0$     | 13.5$ | 17.5$   |
| REGIONAL             | 11.5      | 10.2  | 12.9    | 12.2      | 10.7  | 13.6    | 6.7       | 6.9   | 6.0     |
| DISTANT              | 2.2       | 1.8   | 2.7     | 2.2       | 1.7   | 2.8     | 2.2$      | 3.9$  | 0.0     |
| UNSTAGED             | 10.1      | 8.3   | 12.1    | 10.4      | 8.3   | 12.4    | 10.7$     | 8.4   | 14.2$   |
|                      |           |       |         |           |       |         |           |       |         |
| STAGE DISTRIBUTION (%) 1989-94 |           |       |         |           |       |         |           |       |         |
| ALL STAGES           |           |       |         |           |       |         |           |       |         |
| Number of cases      | 12,123    | 6,709 | 5,414   | 10,758    | 5,876 | 4,882   | 961       | 563   | 398     |
| Percent              | 100%      | 100%  | 100%    | 100%      | 100%  | 100%    | 100%      | 100%  | 100%    |
| LOCALIZED            | 7         | 6     | 7       | 6         | 6     | 7       | 7         | 7     | 8       |
| REGIONAL             | 18        | 17    | 19      | 18        | 16    | 19      | 21        | 20    | 22      |
| DISTANT              | 62        | 64    | 60      | 62        | 64    | 60      | 62        | 61    | 62      |
| UNSTAGED             | 13        | 13    | 14      | 14        | 13    | 14      | 10        | 11    | 7       |
|                      |           |       |         |           |       |         |           |       |         |
| 5-YR RELATIVE SURVIVAL RATES, 1989-94 |           |       |         |           |       |         |           |       |         |
| AGE AT DIAGNOSIS:    |           |       |         |           |       |         |           |       |         |
| <45                  | 10.7      | 12.3  | 8.0     | 10.5      | 11.3  | 9.2     | 9.0$      | 13.9$ | –       |
| 45-54                | 9.4       | 8.7   | 10.3    | 9.5       | 8.7   | 10.6    | 7.0       | 6.9   | 7.2     |
| 55-64                | 6.8       | 5.0   | 8.7     | 6.9       | 4.9   | 9.1     | 4.9       | 4.1   | 5.7     |
| 65-74                | 5.1       | 4.3   | 6.1     | 5.3       | 4.4   | 6.3     | 3.1       | 4.4   | 0.0     |
| 75+                  | 3.5       | 3.2   | 3.9     | 3.4       | 2.9   | 3.9     | 6.9       | 6.7   | 0.0     |
| Under 65             | 7.6       | 6.4   | 9.0     | 7.7       | 6.2   | 9.5     | 5.9       | 5.8   | 5.7     |
| 65 and over          | 4.7       | 4.0   | 5.4     | 4.7       | 4.0   | 5.6     | 4.2       | 5.2   | 0.0     |

$ 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 1995.

$ The difference in rates between 1974-76 and 1989-94 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**

| 5-YR RELATIVE SURVIVAL RATES | All Races | | Blacks | |
|-------------------------------|----------|---|---------|---|
|                               | Total    | Males | Females | Total | Males | Females |
| YEARS OF DIAGNOSIS:           |          |      |         |       |      |         |
| 1974-76*                      | 13.8     | 12.4 | 17.8    | 13.9  | 12.4 | 18.1    |
| 1977-79*                      | 15.1     | 13.3 | 19.4    | 15.5  | 13.7 | 19.6    |
| 1980-82*                      | 15.2     | 13.7 | 18.5    | 15.4  | 13.8 | 18.6    |
| 1983-85*                      | 15.7     | 13.7 | 19.4    | 16.1  | 14.0 | 19.8    |
| 1986-88*                      | 15.4     | 13.9 | 17.7    | 15.7  | 14.1 | 18.3    |
| 1989-94*                      | **15.8** | **14.0** | **18.4** | **16.3** | **14.5** | **18.8** |
| 1989-94 ALL STAGES            | 15.8     | 14.0 | 18.4    | 16.3  | 14.5 | 18.8    |
| LOCALIZED                     | 52.9     | 49.5 | 57.1    | 53.5  | 50.1 | 57.5    |
| REGIONAL                      | 21.3     | 19.4 | 24.3    | 21.9  | 20.3 | 24.3    |
| DISTANT                       | 2.2      | 1.9  | 2.6     | 2.1   | 1.8  | 2.7     |
| UNSTAGED                      | 7.1      | 6.1  | 8.5     | 7.0   | 6.1  | 8.3     |
| LOCALIZED                     | 16       | 15   | 18      | 17    | 15   | 19      |
| REGIONAL                      | 24       | 25   | 23      | 24    | 25   | 23      |
| DISTANT                       | 45       | 45   | 44      | 44    | 45   | 43      |
| UNSTAGED                      | 15       | 15   | 15      | 15    | 15   | 16      |

### STAGE DISTRIBUTION (%) 1989-94

| Stages       | Number of cases | Percent |
|--------------|-----------------|---------|
| LOCALIZED    | 16,599          | 100%    |
| REGIONAL     | 23,773          | 100%    |
| DISTANT      | 51,728          | 100%    |
| UNSTAGED     | 61,599          | 100%    |

### 5-YR RELATIVE SURVIVAL RATES, 1989-94

| AGE AT DIAGNOSIS: | All Races | | Blacks | |
|-------------------|----------|---|---------|---|
|                   | Total    | Males | Females | Total | Males | Females |
| Under 45          | 22.8     | 17.9 | 29.5    | 25.0  | 19.5 | 32.0    |
| 45-54             | 18.5     | 16.4 | 21.4    | 19.5  | 17.3 | 22.3    |
| 55-64             | 17.4     | 15.6 | 20.5    | 18.0  | 16.5 | 20.5    |
| 65-74             | 15.8     | 14.3 | 18.1    | 16.2  | 14.5 | 18.6    |
| 75+               | 10.7     | 9.0  | 12.9    | 11.3  | 9.5  | 13.5    |
| Under 65          | 18.1     | 15.9 | 21.6    | 18.9  | 16.9 | 22.0    |
| 65 and over       | 14.0     | 12.6 | 16.1    | 14.4  | 12.8 | 16.7    |

* 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 1995.

** The difference in rates between 1974-76 and 1989-94 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 | Incidence | Mortality | Relative Survival Rates |
|-------------------------|-----------|-----------|-------------------------|
|                         |           |           | 1-year                  |
| 1975                    | 45.3      | 36.8      | 34.2                    |
| 1976                    | 47.8      | 38.1      | 36.3                    |
| 1977                    | 48.9      | 39.2      | 37.0                    |
| 1978                    | 50.2      | 40.4      | 38.6                    |
| 1979                    | 50.9      | 41.0      | 38.6                    |
| 1980                    | 52.3      | 42.5      | 38.3                    |
| 1981                    | 53.9      | 42.5      | 37.4                    |
| 1982                    | 54.9      | 43.0      | 37.8                    |
| 1983                    | 55.0      | 44.2      | 39.0                    |
| 1984                    | 56.8      | 44.9      | 39.1                    |
| 1985                    | 56.2      | 45.8      | 39.1                    |
| 1986                    | 56.9      | 46.6      | 39.7                    |
| 1987                    | 58.5      | 47.1      | 40.2                    |
| 1988                    | 58.7      | 48.1      | 40.6                    |
| 1989                    | 58.0      | 48.6      | 40.6                    |
| 1990                    | 58.6      | 49.3      | 40.4                    |
| 1991                    | 59.7      | 50.0      | 40.5                    |
| 1992                    | 59.8      | 50.1      | 41.2                    |
| 1993                    | 58.0      | 50.1      | 41.4                    |
| 1994                    | 57.2      | 50.0      | 41.0                    |
| 1995                    | 55.9      | 49.6      | 40.5                    |

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  |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Incidence               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| SEER                    | 76.2  | 79.4  | 80.7  | 82.0  | 81.4  | 84.4  | 84.5  | 85.1  | 84.1  | 86.5  | 83.9  | 83.6  | 85.3  | 83.3  | 82.2  | 81.7  | 81.9  | 81.9  | 78.8  | 75.6  | 73.4  |
| 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  | 75.3  | 74.5  | 72.9  | 72.5  | 70.8  | 69.5  |
| SEER                    | 61.9  | 63.7  | 63.1  | 64.2  | 65.5  | 65.9  | 65.3  | 66.0  | 65.3  | 66.5  | 65.8  | 65.4  | 63.9  | 64.4  | 63.2  | 62.1  | 61.5  | 58.8  |       |       |       |

Relative Survival Rates (SEER)

| Age | 1-year | 2-year | 3-year | 4-year | 5-year | 6-year | 7-year | 8-year | 9-year | 10-year | 11-year | 12-year | 13-year | 14-year | 15-year | 16-year | 17-year | 18-year | 19-year | 20-year |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|     | 8.8    | 9.0    | 9.5    | 9.0    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       |
|     | 8.4    | 8.6    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       | 8.9       |
|     | 8.1    | 8.1    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4       | 8.4       | 8.4       | 8.4       | 8.4       | 8.4       | 8.4       | 8.4       | 8.4       | 8.4       | 8.4       |
|     | 7.8    | 7.7    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9       | 7.9       | 7.9       | 7.9       | 7.9       | 7.9       | 7.9       | 7.9       | 7.9       | 7.9       | 7.9       |
|     | 7.4    | 7.3    | 7.6    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7       | 7.7       | 7.7       | 7.7       | 7.7       | 7.7       | 7.7       | 7.7       | 7.7       | 7.7       | 7.7       |
|     | 7.2    | 6.9    | 7.4    | 7.1    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5       | 7.5       | 7.5       | 7.5       | 7.5       | 7.5       | 7.5       | 7.5       | 7.5       | 7.5       | 7.5       |
|     | 6.7    | 6.5    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2       | 7.2       | 7.2       | 7.2       | 7.2       | 7.2       | 7.2       | 7.2       | 7.2       | 7.2       | 7.2       |
|     | 6.7    | 6.3    | 6.7    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       |
|     | 6.5    | 6.2    | 6.7    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       |
|     | 6.1    | 5.9    | 6.6    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       |
|     | 6.1    | 5.4    | 6.1    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       | 6.4       |
|     | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1       | 6.1       | 6.1       | 6.1       | 6.1       | 6.1       | 6.1       | 6.1       | 6.1       | 6.1       | 6.1       |

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 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 40.0 | 41.5 | 43.2 | 43.3 | 42.4 | 43.4 | 42.6 |
| 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 |
| 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 | 32.3 | 31.4 | 31.5 | 31.7 | 32.5 |
| Relative Survival Rates (SEER) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1-year        | 37.7 | 41.7 | 42.0 | 44.6 | 42.7 | 42.3 | 42.3 | 43.2 | 43.6 | 42.8 | 44.8 | 44.1 | 42.4 | 43.6 | 44.4 | 44.1 | 44.9 | 44.0 | 44.4 | 43.6 |
| 2-year        | 24.2 | 25.8 | 25.9 | 27.6 | 26.1 | 25.1 | 26.3 | 26.4 | 27.8 | 25.8 | 26.9 | 27.1 | 24.7 | 25.7 | 25.9 | 27.2 | 27.1 | 26.7 | 27.7 |
| 3-year        | 19.1 | 21.0 | 20.2 | 22.2 | 20.9 | 19.5 | 20.9 | 21.1 | 22.2 | 21.0 | 21.8 | 20.7 | 19.0 | 19.6 | 19.8 | 21.1 | 21.5 | 20.5 |
| 4-year        | 16.6 | 18.0 | 18.1 | 19.7 | 18.3 | 16.6 | 18.3 | 18.7 | 19.0 | 18.0 | 19.3 | 17.9 | 16.7 | 17.4 | 17.3 | 18.0 | 18.0 | 16.8 |
| 5-year        | 15.1 | 16.3 | 16.0 | 18.4 | 17.0 | 14.8 | 16.5 | 16.8 | 17.3 | 16.2 | 17.3 | 16.0 | 14.9 | 15.6 | 15.8 | 16.3 |
| 6-year        | 14.1 | 15.4 | 15.0 | 16.8 | 15.6 | 13.8 | 15.1 | 15.0 | 16.1 | 15.0 | 16.2 | 14.8 | 13.6 | 14.3 | 14.6 |
| 7-year        | 13.2 | 14.6 | 14.2 | 15.8 | 14.8 | 12.8 | 13.9 | 14.7 | 14.8 | 14.2 | 14.8 | 13.9 | 12.3 | 13.4 |
| 8-year        | 12.8 | 13.7 | 13.2 | 14.9 | 13.9 | 12.0 | 13.2 | 13.6 | 13.9 | 13.4 | 14.0 | 13.0 | 11.5 |
| 9-year        | 12.3 | 12.9 | 12.8 | 14.3 | 12.9 | 11.5 | 12.3 | 12.8 | 13.2 | 12.1 | 13.1 | 12.6 |
| 10-year       | 11.6 | 12.2 | 12.3 | 13.9 | 11.6 | 10.4 | 11.7 | 12.2 | 12.5 | 11.7 | 12.4 |
| 11-year       | 11.5 | 11.2 | 12.1 | 13.2 | 11.3 | 9.7  | 11.4 | 11.7 | 12.2 | 11.0 |
| 12-year       | 11.3 | 10.6 | 11.7 | 12.6 | 10.9 | 9.5  | 11.1 | 10.6 | 11.5 |
| 13-year       | 11.0 | 10.4 | 11.2 | 12.5 | 10.6 | 8.6  | 10.5 | 10.2 |
| 14-year       | 10.6 | 9.7  | 10.9 | 11.7 | 9.9  | 7.8  | 10.2 |
| 15-year       | 10.4 | 9.5  | 10.1 | 11.6 | 9.1  | 7.3  |
| 16-year       | 9.7  | 9.5  | 10.1 | 11.2 | 8.6  |
| 17-year       | 8.9  | 9.2  | 9.7  | 10.9 |
| 18-year       | 8.9  | 8.9  | 8.9  |
| 19-year       | 8.8  | 8.4  |
| 20-year       | 8.2  |

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 23-YEAR TRENDS, 1973-95**

By Race, Sex and Age Group

| Age Group | All Races | Whites | Blacks |
|-----------|-----------|--------|--------|
|           | Average Rate | % Change | EAPC | Average Rate | % Change | EAPC | Average Rate | % Change | EAPC |
|           | 1973-74 | 94-95 | 73-95 | 73-95 | 1973-74 | 94-95 | 73-95 | 73-95 | 1973-74 | 94-95 | 73-95 | 73-95 |
| Males & Females | 43.2 | 56.5 | 30.8 | 1.3* | 42.5 | 56.6 | 33.1 | 1.4* | 58.9 | 74.6 | 26.7 | 1.4* |
| 0-54: | 10.5 | 8.6 | -18.1 | -1.1* | 9.0 | 8.0 | -19.6 | -1.2* | 18.2 | 15.7 | -13.5 | -0.8* |
| 0-14 | 0.0 | 0.0 | -76.1 | - | 0.0 | 0.0 | -64.5 | - | 0.1 | 0.0 | - | - |
| 15-34 | 0.7 | 0.5 | -19.3 | -0.3 | 0.6 | 0.5 | -15.7 | -0.4 | 0.8 | 0.6 | -26.4 | 1.6 |
| 35-44 | 13.8 | 8.6 | -37.7 | -2.6* | 13.1 | 7.3 | -44.1 | -2.9* | 21.3 | 19.6 | -8.1 | -1.4* |
| 45-54 | 58.6 | 50.8 | -13.4 | -0.9* | 55.7 | 47.9 | -13.9 | -0.9* | 105.1 | 90.2 | -14.1 | -0.7* |
| 55-64 | 145.2 | 166.9 | 14.9 | 0.8* | 143.2 | 166.7 | 16.4 | 0.9* | 204.9 | 248.1 | 21.1 | 1.2* |
| 65+: | 217.0 | 347.4 | 60.1 | 2.4* | 216.2 | 352.8 | 63.2 | 2.4* | 257.3 | 396.8 | 54.2 | 2.5* |
| 65-74 | 227.1 | 340.4 | 49.9 | 2.1* | 226.9 | 346.2 | 52.6 | 2.1* | 283.3 | 405.9 | 43.3 | 2.3* |
| 75+ | 200.6 | 358.8 | 78.9 | 2.9* | 198.7 | 363.5 | 82.9 | 3.0* | 215.0 | 382.0 | 77.7 | 2.9* |

| Sex | Average Rate | % Change | EAPC | Average Rate | % Change | EAPC | Average Rate | % Change | EAPC |
|-----|-------------|----------|------|-------------|----------|------|-------------|----------|------|
| Males | 73.9 | 74.5 | 0.9 | 0.1 | 73.3 | 73.0 | -0.3 | 0.0 | 103.4 | 114.0 | 10.3 | 0.6* |
| 0-54: | 14.6 | 9.8 | -33.1 | -2.1* | 13.7 | 8.8 | -35.8 | -2.3* | 27.9 | 20.6 | -26.1 | -1.4* |
| 0-14 | 0.0 | 0.0 | -7.7 | - | 0.0 | 0.0 | 1.8 | - | 0.0 | 0.0 | - | - |
| 15-34 | 0.8 | 0.6 | -16.9 | -0.2 | 0.7 | 0.6 | -9.2 | -0.1 | 1.5 | 0.8 | -46.4 | -0.5 |
| 35-44 | 17.3 | 9.5 | -45.2 | -2.8* | 16.2 | 7.5 | -53.6 | -3.2* | 30.0 | 26.0 | -13.3 | -1.7* |
| 45-54 | 84.1 | 58.0 | -31.0 | -2.0* | 79.2 | 53.2 | -32.9 | -2.2* | 164.1 | 118.3 | -27.9 | -1.3* |
| 55-64 | 227.9 | 203.0 | -10.9 | -0.4 | 224.0 | 195.1 | -12.9 | -0.5 | 353.1 | 366.2 | 3.7 | 0.3 |
| 65+: | 417.2 | 486.7 | 16.7 | 0.8* | 422.2 | 486.6 | 15.3 | 0.7* | 491.1 | 646.2 | 31.6 | 1.6* |
| 65-74 | 415.0 | 452.9 | 9.1 | 0.5* | 420.7 | 448.1 | 6.5 | 0.4* | 529.8 | 646.0 | 21.9 | 1.2* |
| 75+ | 420.7 | 541.9 | 28.8 | 1.2* | 424.7 | 549.4 | 29.4 | 1.2* | 428.1 | 646.4 | 51.0 | 2.3* |
| Females | 19.1 | 43.0 | 125.6 | 3.9* | 18.8 | 44.4 | 136.0 | 4.1* | 21.3 | 46.1 | 115.9 | 4.0* |
| 0-54: | 6.6 | 7.4 | 13.2 | 0.3 | 6.3 | 7.2 | 13.6 | 0.3 | 9.3 | 11.5 | 22.7 | 0.5 |
| 0-14 | 0.1 | 0.0 | - | - | 0.1 | 0.0 | - | - | 0.2 | 0.0 | - | - |
| 15-34 | 0.6 | 0.4 | -23.0 | -0.4 | 0.6 | 0.5 | -23.4 | -0.6 | 0.2 | 0.4 | 110.9 | - |
| 35-44 | 10.4 | 7.7 | -25.8 | -2.3* | 10.0 | 7.1 | -29.2 | -2.5* | 13.7 | 14.0 | 2.2 | -0.9 |
| 45-54 | 34.5 | 43.8 | 26.9 | 0.9* | 33.8 | 42.8 | 28.6 | 1.0* | 51.5 | 66.2 | 23.3 | 0.9* |
| 55-64 | 68.6 | 133.9 | 95.2 | 3.3* | 69.2 | 139.9 | 102.2 | 3.4* | 70.7 | 154.3 | 118.2 | 4.5* |
| 65+: | 75.6 | 250.3 | 231.0 | 6.0* | 74.3 | 260.5 | 250.6 | 6.2* | 74.1 | 229.7 | 210.1 | 6.2* |
| 65-74 | 79.8 | 249.9 | 213.3 | 5.6* | 79.2 | 263.4 | 232.4 | 5.9* | 72.6 | 229.7 | 216.2 | 6.5* |
| 75+ | 68.8 | 250.9 | 264.4 | 6.6* | 66.2 | 255.8 | 286.2 | 6.9* | 76.4 | 229.8 | 280.7 | 5.8* |

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<0.05).

- Statistic could not be calculated.
**Table XV-14**

**LUNG AND BRONCHUS CANCER (Invasive)**

**AGE-SPECIFIC CANCER U.S. MORTALITY RATES* AND 23-YEAR TRENDS, 1973-95**

By Race, Sex and Age Group

| Sex/Age | All Races | Whites | Blacks |
|---------|-----------|--------|--------|
|         | Average Rate 1973-95 | % Change | EAPC | Average Rate 1973-95 | % Change | EAPC | Average Rate 1973-95 | % Change | EAPC |
|         | 73-95 | 73-95 | 73-95 | 73-95 | 73-95 | 73-95 | 73-95 | 73-95 | 73-95 |
| Males & Females | 35.4 | 49.4 | 39.7 | 1.7* | 34.9 | 49.1 | 40.6 | 1.7* | 41.7 | 59.7 | 43.3 | 1.9* |
| 0-54: | 8.3 | 6.6 | -20.6 | -1.1* | 7.8 | 6.3 | -19.5 | -1.1* | 13.7 | 10.5 | -23.1 | -1.1* |
| 0-14 | 0.0 | 0.0 | -27.3 | -1.6 | 0.0 | 0.0 | -24.4 | -0.9 | 0.0 | 0.0 | -12.4 | -0.0 |
| 15-34 | 0.4 | 0.3 | -26.0 | -1.4* | 0.4 | 0.3 | -24.6 | -1.5* | 0.5 | 0.3 | -31.9 | -1.0 |
| 35-44 | 10.7 | 6.3 | -41.1 | -2.7* | 10.0 | 5.8 | -42.1 | -2.8* | 17.2 | 11.0 | -36.0 | -2.2* |
| 45-54 | 47.3 | 39.8 | -15.9 | -0.8* | 44.4 | 38.1 | -14.3 | -0.8* | 78.5 | 62.6 | -20.1 | -0.9* |
| 55-64 | 119.0 | 144.2 | 21.1 | 1.1* | 116.9 | 142.5 | 21.9 | 1.2* | 149.2 | 189.1 | 26.8 | 1.3* |
| 65+: | 179.9 | 312.8 | 73.9 | 2.7* | 181.3 | 313.7 | 73.2 | 2.7* | 171.6 | 343.3 | 100.1 | 3.5* |
| 75+: | 184.5 | 294.8 | 59.8 | 2.3* | 185.4 | 295.0 | 59.1 | 2.3* | 184.5 | 341.6 | 85.1 | 3.2* |
| Males | 172.4 | 342.1 | 98.5 | 3.4* | 174.4 | 344.3 | 97.4 | 3.4* | 150.5 | 346.1 | 130.0 | 4.2* |
| 0-54: | 63.3 | 70.2 | 10.9 | 0.6* | 62.4 | 68.6 | 9.9 | 0.5* | 76.8 | 98.1 | 27.7 | 1.3* |
| 0-14 | 12.0 | 8.2 | -34.2 | -2.0* | 11.5 | 7.5 | -34.5 | -2.0* | 23.0 | 15.8 | -31.2 | -1.7* |
| 15-34 | 0.0 | 0.0 | -30.5 | -3.4 | 0.0 | 0.0 | -32.3 | -3.4 | 0.0 | 0.0 | -16.2 | -3.4 |
| 35-44 | 15.0 | 7.6 | -49.6 | -3.3 | 13.8 | 6.7 | -51.5 | -3.5 | 27.2 | 15.7 | -42.3 | -2.7* |
| 45-54 | 72.0 | 49.7 | -31.0 | -2.0* | 66.5 | 45.9 | -31.0 | -1.8* | 133.8 | 95.4 | -28.7 | -1.5* |
| 55-64 | 198.8 | 191.3 | -3.8 | 0.0 | 193.4 | 184.6 | -4.5 | 0.0 | 273.0 | 287.0 | 8.8 | 0.5 |
| 65+: | 354.4 | 466.2 | 31.6 | 1.3* | 358.2 | 461.6 | 32.1 | 1.2* | 336.5 | 588.5 | 74.9 | 2.9* |
| 65-74 | 350.5 | 415.6 | 18.6 | 0.8* | 352.7 | 409.3 | 16.1 | 0.7* | 355.8 | 553.2 | 55.5 | 2.3* |
| 75+: | 360.8 | 548.8 | 52.1 | 2.1* | 367.3 | 546.7 | 48.9 | 1.9* | 305.0 | 645.9 | 111.8 | 3.9* |
| Females | 13.8 | 34.0 | 146.4 | 4.5* | 13.8 | 34.6 | 150.6 | 4.5* | 13.9 | 33.3 | 139.6 | 4.4* |
| 0-54: | 4.5 | 5.1 | 13.8 | 0.5 | 4.3 | 5.1 | 16.5 | 0.6* | 5.8 | 6.1 | 5.0 | 0.3 |
| 0-14 | 0.0 | 0.0 | -23.4 | -0.3 | 0.0 | 0.0 | -14.5 | -0.3 | 0.0 | 0.0 | -2.5 | -0.3 |
| 15-34 | 0.3 | 0.2 | -16.0 | -0.6 | 0.3 | 0.2 | -16.3 | -0.7* | 0.3 | 0.3 | 1.8 | 0.0 |
| 35-44 | 6.5 | 5.0 | -22.7 | -1.7* | 6.3 | 4.9 | -22.4 | -1.7* | 8.9 | 7.0 | -21.8 | -1.3* |
| 45-54 | 24.4 | 30.3 | 24.5 | 1.0* | 23.8 | 30.5 | 28.3 | 1.1* | 31.7 | 35.7 | 12.5 | 0.7* |
| 55-64 | 48.5 | 101.7 | 109.6 | 3.7* | 49.0 | 103.8 | 111.9 | 3.7* | 46.3 | 106.4 | 129.7 | 4.3* |
| 65+: | 58.2 | 208.3 | 258.2 | 6.4* | 58.9 | 212.7 | 261.3 | 6.5* | 50.2 | 189.0 | 276.4 | 6.7* |
| 65-74 | 57.2 | 198.6 | 247.5 | 6.2* | 57.8 | 202.8 | 250.5 | 6.3* | 51.5 | 192.0 | 272.4 | 6.7* |
| 75+: | 59.8 | 224.1 | 274.8 | 6.7* | 60.6 | 229.0 | 278.0 | 6.8* | 48.1 | 184.2 | 283.2 | 6.7* |

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, 1993-95

| 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        | 8.27       | 0.00     | 0.00     | 0.00     | 5.64       |
| 10          | 0.00        | 0.01        | 0.04        | 8.36       | 0.00     | 0.00     | 0.03     | 5.68       |
| 20          | 0.01        | 0.04        | 0.27        | 8.42       | 0.00     | 0.03     | 0.23     | 5.70       |
| 30          | 0.03        | 0.27        | 1.34        | 8.56       | 0.03     | 0.22     | 0.99     | 5.73       |
| 40          | 0.24        | 1.34        | 4.00        | 8.76       | 0.19     | 0.97     | 2.68     | 5.76       |
| 50          | 1.14        | 3.92        | 7.15        | 8.89       | 0.79     | 2.53     | 4.54     | 5.68       |
| 60          | 3.03        | 6.55        | 8.25        | 8.46       | 1.83     | 3.95     | 4.98     | 5.15       |

*Lifetime Risk of Being Diagnosed = 8.27%*
*Lifetime Risk of Dying = 6.96%*

| 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        | 8.34       | 0.00     | 0.00     | 0.00     | 5.89       |
| 10          | 0.00        | 0.01        | 0.03        | 8.41       | 0.00     | 0.03     | 0.22     | 5.95       |
| 20          | 0.01        | 0.03        | 0.24        | 8.47       | 0.00     | 0.03     | 1.01     | 5.97       |
| 30          | 0.03        | 0.24        | 1.24        | 8.58       | 0.03     | 0.21     | 2.79     | 5.99       |
| 40          | 0.22        | 1.24        | 3.90        | 8.75       | 0.19     | 0.98     | 4.76     | 5.91       |
| 50          | 2.99        | 6.53        | 8.24        | 8.44       | 1.92     | 4.14     | 5.19     | 5.34       |

*Lifetime Risk of Being Diagnosed = 8.34%*
*Lifetime Risk of Dying = 7.07%*

| 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        | 8.47       | 0.00     | 0.00     | 0.00     | 4.83       |
| 10          | 0.00        | 0.01        | 0.09        | 8.68       | 0.00     | 0.00     | 0.05     | 4.92       |
| 20          | 0.01        | 0.09        | 0.53        | 8.82       | 0.05     | 0.35     | 4.94     | 4.94       |
| 30          | 0.08        | 0.54        | 2.41        | 9.17       | 0.35     | 1.26     | 4.99     | 4.99       |
| 40          | 0.49        | 2.47        | 5.64        | 9.65       | 1.24     | 2.88     | 5.05     | 5.05       |
| 50          | 2.21        | 5.74        | 8.88        | 10.20      | 2.71     | 4.17     | 4.99     | 4.99       |
| 60          | 4.27        | 8.07        | 9.52        | 9.67       | 3.52     | 4.26     | 4.44     | 4.44       |

*Lifetime Risk of Being Diagnosed = 8.47%*
*Lifetime Risk of Dying = 7.10%*

---

**SEER Cancer Statistics Review 1973-1995**

National Cancer Institute
Table XV-16

LUNG AND BRONCHUS (Invasive)

AGE-ADJUSTED SEER INCIDENCE AND U.S. MORTALITY RATES
By Race/Ethnicity and Sex

|                        | Incidence |                        | Mortality |                        |
|------------------------|-----------|------------------------|-----------|------------------------|
|                        | Rate 1990-1995 | Rate 1990-1995 | Trend 1990-1995 | Rate 1990-1995 | Rate 1990-1995 |
|                        | Rate per 100,000 persons | Rate per 100,000 persons | EAPC (%) | Rate per 100,000 persons | Rate per 100,000 persons | EAPC (%) |
| **RACE/ETHNICITY**     |           |                       |           |                       |                       |          |
| All Races              | 56.3      | 75.8                   | 41.7      | -1.4*                 | -2.6*                  | 0.1      |
| White                  | 56.4      | 74.3                   | 43.3      | -1.3*                 | -2.7*                  | 0.4      |
| White Hispanic         | 29.6      | 42.1                   | 20.7      | -3.4*                 | -3.9*                  | -3.1     |
| White Non-Hispanic     | 59.3      | 77.6                   | 42.8      | -1.1*                 | -2.6*                  | 0.7      |
| Black                  | 75.0      | 114.4                  | 46.4      | -1.9*                 | -2.2                   | -1.6     |
| Asian/Pacific Islander | 35.8      | 52.4                   | 22.4      | -1.5                  | -1.7                   | -0.4     |
| American Indian        | 18.8      | 25.1                   | 14.1      | -0.9                  | 3.6                    | -7.0     |
| Hispanic               | 28.2      | 40.0                   | 19.8      | -3.6*                 | -4.1*                  | -3.3     |

- The EAPC is the Estimated Annual Percent Change over the time interval.
- Statistic not shown. Rate based on less than 10 cases per year within the time interval.
- 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). For mortality, information is included for all states except Connecticut, Oklahoma, Louisiana, and New Hampshire.
- Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians. For incidence, all 11 SEER areas are included. For 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, 1973-1995. 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

| SEER INCIDENCE RATES§, 1991-95 | All Races | Whites | Blacks |
|--------------------------------|-----------|--------|--------|
| Registry                      | Total Males | Females | Total Males | Females | Total Males | Females |
| 11 registries                 | 56.0       | 75.0   | 41.9   | 56.2       | 73.4   | 43.5   | 74.8       | 114.2   | 46.2     |
| 9 registries                  | 58.1       | 78.3   | 43.0   | 57.9       | 76.6   | 44.2   | 77.7       | 119.5   | 47.4     |
| San Francisco-Oakland         | 56.3       | 71.7   | 44.7   | 57.6       | 69.8   | 48.7   | 79.2       | 116.0   | 51.4     |
| Connecticut                   | 59.5       | 78.1   | 46.4   | 59.2       | 76.9   | 47.1   | 67.3       | 105.5   | 40.7     |
| Metropolitan Detroit          | 73.4       | 102.4  | 52.6   | 70.8       | 96.4   | 52.7   | 83.9       | 127.9   | 52.2     |
| Hawaii                        | 45.9       | 62.6   | 31.0   | 62.6       | 75.8   | 50.2   | -          | -       | -        |
| Iowa                          | 57.7       | 83.5   | 38.4   | 57.4       | 82.8   | 38.5   | -          | -       | -        |
| New Mexico                    | 39.8       | 53.2   | 29.5   | 41.5       | 55.1   | 30.9   | -          | -       | -        |
| Seattle-Puget Sound           | 62.2       | 78.7   | 49.5   | 62.6       | 78.4   | 50.6   | 78.6       | 114.9   | 43.9     |
| Utah                          | 27.2       | 39.5   | 17.3   | 27.0       | 38.9   | 17.5   | -          | -       | -        |
| Metropolitan Atlanta          | 65.4       | 95.0   | 45.2   | 63.8       | 88.6   | 46.8   | 70.5       | 118.4   | 40.1     |
| San Jose-Monterey             | 50.3       | 64.7   | 39.7   | 52.9       | 66.7   | 43.1   | 66.2       | 96.3    | 41.9     |
| Los Angeles                   | 50.9       | 66.9   | 39.1   | 51.0       | 64.2   | 41.3   | 68.6       | 103.0   | 43.7     |

| SEER MORTALITY RATES*, 1991-95 | All Races | Whites | Blacks |
|--------------------------------|-----------|--------|--------|
| Registry                      | Total Males | Females | Total Males | Females | Total Males | Females |
| 11 registries                 | 43.4       | 59.8   | 31.4   | 43.6       | 58.8   | 32.6   | 59.5       | 93.0    | 35.5     |
| 9 registries                  | 44.6       | 62.0   | 31.9   | 44.7       | 61.0   | 32.8   | 60.9       | 96.0    | 35.7     |
| San Francisco-Oakland         | 44.2       | 56.8   | 35.1   | 45.8       | 56.1   | 38.5   | 64.0       | 93.7    | 42.4     |
| Connecticut                   | 44.0       | 60.5   | 32.6   | 43.7       | 59.5   | 33.0   | 50.5       | 82.3    | 28.6     |
| Metropolitan Detroit          | 53.8       | 77.7   | 36.8   | 51.7       | 73.3   | 36.6   | 63.0       | 98.0    | 37.7     |
| Hawaii                        | 34.1       | 46.7   | 22.9   | 48.1       | 60.1   | 37.0   | -          | -       | -        |
| Iowa                          | 45.7       | 67.5   | 29.8   | 45.4       | 66.9   | 29.7   | -          | -       | -        |
| New Mexico                    | 34.9       | 48.2   | 24.4   | 36.1       | 49.9   | 25.3   | -          | -       | -        |
| Seattle-Puget Sound           | 47.8       | 62.8   | 36.7   | 48.6       | 63.1   | 37.8   | 52.5       | 80.1    | 27.2     |
| Utah                          | 21.9       | 31.8   | 14.0   | 21.8       | 31.3   | 14.2   | -          | -       | -        |
| Metropolitan Atlanta          | 51.9       | 78.7   | 33.8   | 50.0       | 72.5   | 34.7   | 60.7       | 107.6   | 31.5     |
| San Jose-Monterey             | 38.4       | 51.2   | 29.1   | 40.5       | 53.0   | 31.6   | 48.0       | 75.1    | 27.0     |
| Los Angeles                   | 40.7       | 54.6   | 30.5   | 40.8       | 52.8   | 32.1   | 56.7       | 87.1    | 35.4     |

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, 1991-95

All Races, Males and Females

| State               | Rate | SE  | Rank | PD   |
|---------------------|------|-----|------|------|
| **TOTAL U.S.**      | 49.8 | 0.06|      |      |
| **High Five States**|      |     |      |      |
| Kentucky            | 68.0 | 0.57| (01) | 36.5 |
| Arkansas            | 62.2 | 0.65| (02) | 24.9 |
| West Virginia       | 61.5 | 0.72| (03) | 23.5 |
| Louisiana           | 60.6 | 0.52| (04) | 21.7 |
| Delaware            | 59.7 | 1.24| (05) | 19.9 |
| **Low Five States** |      |     |      |      |
| Idaho               | 37.9 | 0.81| (47) | -23.9|
| Colorado            | 36.5 | 0.46| (48) | -26.7|
| New Mexico          | 34.9 | 0.65| (49) | -29.9|
| Hawaii              | 34.1 | 0.74| (50) | -31.5|
| Utah                | 21.9 | 0.54| (51) | -56.0|

* 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.

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, 1991-95

All Races, Males

| State          | Rate | SE  | Rank | PD       |
|----------------|------|-----|------|----------|
|                | U.S. |     |      |          |
| TOTAL U.S.     | 72.0 | 0.11|      |          |
| High Five States |     |     |      |          |
| Kentucky       | 104  | 1.06| 01   | 44.4     |
| Arkansas       | 97   | 1.21| 02   | 35.1     |
| Tennessee      | 95   | 0.87| 03   | 31.9     |
| Louisiana      | 95   | 1.00| 04   | 31.9     |
| Mississippi    | 91   | 1.22| 05   | 26.9     |
| Low Five States|     |     |      |          |
| Colorado       | 51   | 0.82| 47   | -28.9    |
| Idaho          | 50   | 1.37| 48   | -29.6    |
| New Mexico     | 48   | 1.13| 49   | -33.1    |
| Hawaii         | 46   | 1.26| 50   | -35.1    |
| Utah           | 31   | 0.96| 51   | -55.8    |

Note: *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.
♀ 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, 1991-95

#### All Races, Females

| State            | Rate | SE  | Rank | PD     |
|------------------|------|-----|------|--------|
| **TOTAL U.S.**   | 33.3 | 0.07|      |        |
| **High Five States** |      |     |      |        |
| Nevada           | 46.0 | 0.10| (01) | 38.1   |
| Kentucky         | 41.8 | 0.60| (02) | 25.5   |
| West Virginia    | 41.3 | 0.80| (03) | 24.0   |
| Delaware         | 41.2 | 1.39| (04) | 23.7   |
| Alaska           | 40.0 | 2.27| (05) | 20.1   |
| **Low Five States** |      |     |      |        |
| Colorado         | 25.5 | 0.52| (47) | -23.4  |
| New Mexico       | 24.4 | 0.74| (48) | -26.7  |
| North Dakota     | 24.3 | 1.15| (49) | -27.0  |
| Hawaii           | 22.9 | 0.83| (50) | -31.2  |
| Utah             | 14.0 | 0.59| (51) | -58.0  |

#### Note
- * 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.
- **Diff** Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
SEER Incidence and U.S. Mortality
Lung, Male, Under 65 Years of Age
By Race

White

Black

Year of Diagnosis/Death

Rate per 100,000 (log scale)

100

10

1

1973 1975 1977 1979 1981 1983 1985 1987 1989 1991 1993 1995

Incidence

Mortality

1973 1975 1977 1979 1981 1983 1985 1987 1989 1991 1993 1995

Incidence

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

White

Black

Incidence
Mortality

Incidence
Mortality

Year of Diagnosis/Death

Year of Diagnosis/Death

Rate per 100,000 (log scale)

Rate per 100,000 (log scale)
SEER Incidence and U.S. Mortality
Lung, Male, Ages 65 and Over
By Race

White

Black

Incidence

Mortality

Incidence

Mortality

Year of Diagnosis/Death

Year of Diagnosis/Death
SEER Incidence and U.S. Mortality
Lung, Female, Ages 65 and Over
By Race

White

Black

Incidence

Mortality

Rate per 100,000 (log scale)

Year of Diagnosis/Death
Cancer of the Lung & Bronchus
SEER Incidence & U.S. Mortality Rates, 1973-1995
By Sex, All Races

Rate per 100,000 (log scale)

Incidence - Males
Mortality - Males
Incidence - Females
Mortality - Females

Year of Diagnosis/Death

Age-adjusted to 1970 Standard
Cancer of the Lung & Bronchus
SEER Incidence, 1973-1995
By Sex and Race

Age-adjusted to 1970 Standard
Recent trend, 1991-1995, highlighted