

Table VI-1
COLON AND RECTUM 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>1973-93</u>									
All Ages									
Percent Change (PC)	-3.1	1.0	-7.6	-5.2	-1.7	-9.6	23.9	38.5	13.4
Est. Annual PC (EAPC)	-0.1	0.2	-0.5★	-0.2	0.1	-0.6★	1.0★	1.6★	0.6★
Under 65									
Percent Change (PC)	-5.9	0.8	-13.3	-9.4	-3.1	-17.0	23.2	34.3	14.0
Est. Annual PC (EAPC)	-0.3★	0.2	-0.8★	-0.5★	0.0	-1.1★	1.1★	1.5★	0.7★
65 and over									
Percent Change (PC)	-1.5	1.1	-4.3	-2.9	-1.1	-5.3	24.3	41.0	13.0
Est. Annual PC (EAPC)	0.0	0.3	-0.2	-0.1	0.2	-0.3	1.0★	1.6★	0.5
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	2.3	3.7	1.3	2.2	3.9	0.7	6.9	4.7	10.8
Est. Annual PC (EAPC)	0.9	1.5	0.3	0.8	1.5	0.2	1.6	1.4	2.3
<u>1989-93 - ALL AGES</u>									
Percent Change (PC)	-5.9	-6.5	-5.7	-6.7	-7.0	-6.9	-2.2	-0.2	-4.2
Est. Annual PC (EAPC)	-2.0★◆	-2.2★◆	-1.9★◆	-2.3★◆	-2.4★◆	-2.3★◆	-0.7	-0.5	-0.9
<u>MORTALITY TRENDS (expressed in percents)δ:</u>									
<u>1973-93</u>									
All Ages									
Percent Change (PC)	-18.6	-12.9	-24.1	-20.7	-15.2	-26.3	9.7	22.4	0.8
Est. Annual PC (EAPC)	-1.1★	-0.7★	-1.5★	-1.2★	-0.8★	-1.6★	0.5★	1.1★	0.1
Under 65									
Percent Change (PC)	-23.2	-15.8	-31.4	-25.6	-18.3	-33.9	-2.2	12.9	-14.5
Est. Annual PC (EAPC)	-1.4★	-0.8★	-2.0★	-1.5★	-1.0★	-2.2★	0.0	0.7★	-0.7★
65 and over									
Percent Change (PC)	-16.4	-11.6	-20.5	-18.5	-13.9	-22.7	16.7	27.7	10.6
Est. Annual PC (EAPC)	-1.0★	-0.6★	-1.2★	-1.1★	-0.8★	-1.4★	0.8★	1.3★	0.5★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-0.4	1.2	-1.8	-0.6	1.1	-2.1	1.2	1.6	1.1
Est. Annual PC (EAPC)	-0.1	0.4	-0.6	-0.2	0.4	-0.7	0.7	0.7	0.7
<u>1989-93 - ALL AGES</u>									
Percent Change (PC)	-5.2	-5.8	-4.9	-5.5	-6.1	-5.4	-2.4	-2.8	-2.1
Est. Annual PC (EAPC)	-1.7★◆	-1.9★◆	-1.6★◆	-1.8★◆	-2.0★◆	-1.8★◆	-0.5	-0.7	-0.4

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

§ SEER Program.

δ NCHS public use tape.

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

◆ The EAPC for 1989-93 is significantly different from the EAPC for 1975-79 ($p < .05$).

◇ The EAPC for 1989-93 is significantly different from the EAPC for 1975-79 ($p < .10$).

- Statistic could not be calculated.

Table VI-2
COLON CANCER (Invasive) AND RECTUM 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 COLON (expressed in percents)§:</u>									
<u>1973-93</u>									
All Ages									
Percent Change (PC)	1.7	8.3	-5.0	-0.8	5.5	-7.5	32.9	42.0	27.2
Est. Annual PC (EAPC)	0.2	0.6*	-0.3	0.0	0.5*	-0.4*	1.3*	1.8*	1.0*
Under 65									
Percent Change (PC)	-2.9	8.4	-13.6	-6.8	5.2	-18.5	31.5	35.2	28.6
Est. Annual PC (EAPC)	-0.2	0.4*	-0.9*	-0.4*	0.2	-1.2*	1.4*	1.6*	1.1*
65 and over									
Percent Change (PC)	4.0	8.2	-0.1	2.2	5.7	-1.5	33.8	45.8	26.3
Est. Annual PC (EAPC)	0.3	0.7*	0.0	0.2	0.6*	-0.1	1.3*	1.8*	0.9*
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	3.1	5.8	0.9	2.9	6.1	0.2	7.8	5.3	11.7
Est. Annual PC (EAPC)	1.1	2.1	0.3	1.0	2.1*	0.1	2.0	1.5	2.8
<u>1989-93 - ALL AGES</u>									
Percent Change (PC)	-4.9	-5.1	-5.0	-5.7	-5.2	-6.7	-1.1	-1.5	-0.7
Est. Annual PC (EAPC)	-1.6**◆	-1.7**◆	-1.6**◆	-1.9**◆	-1.8**◆	-2.2**◆	-0.1	-0.7	0.4
<u>INCIDENCE TRENDS FOR RECTUM (expressed in percents)§:</u>									
<u>1973-93</u>									
All Ages									
Percent Change (PC)	-13.4	-12.6	-14.8	-14.9	-15.1	-15.2	0.0	28.5	-21.3
Est. Annual PC (EAPC)	-0.7*	-0.5*	-0.9*	-0.7*	-0.6*	-1.0*	0.2	0.9*	-0.5
Under 65									
Percent Change (PC)	-11.4	-10.4	-12.6	-14.2	-15.2	-13.3	4.5	32.4	-18.3
Est. Annual PC (EAPC)	-0.5*	-0.3	-0.8*	-0.6*	-0.4	-0.9*	0.4	1.1*	-0.3
65 and over									
Percent Change (PC)	-14.7	-13.8	-16.2	-15.3	-15.1	-16.4	-3.4	25.6	-23.8
Est. Annual PC (EAPC)	-0.8*	-0.7*	-1.0*	-0.8*	-0.7*	-1.0*	0.0	0.9	-0.7
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	0.5	-0.4	2.2	0.8	-0.1	2.2	3.9	3.0	7.7
Est. Annual PC (EAPC)	0.3	0.3	0.5	0.3	0.2	0.6	0.5	1.1	0.8
<u>1989-93 - ALL AGES</u>									
Percent Change (PC)	-8.4	-9.6	-7.5	-9.1	-11.0	-7.5	-5.8	3.8	-15.9
Est. Annual PC (EAPC)	-3.0**◆	-3.4**◆	-2.7**◆	-3.2**◆	-3.8**◆	-2.6**◆	-2.6	0.2	-5.8

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 1989-93 is significantly different from the EAPC for 1975-79 (p<.05).
- ◇ The EAPC for 1989-93 is significantly different from the EAPC for 1975-79 (p<.10).
- Statistic could not be calculated.

Table VI-3
COLON AND RECTUM 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>									
YEAR OF DIAGNOSIS:									
1973	46.4	53.2	41.6	46.9	54.3	41.7	42.3	42.8	41.6
1974	47.7	56.2	41.6	48.4	57.4	41.9	41.6	46.8	37.8
1975	47.4	54.1	42.7	47.8	55.1	42.9	45.4	47.6	43.5
1976	49.1	57.3	43.1	49.6	57.8	43.7	44.4	48.9	40.3
1977	49.5	58.0	43.5	50.0	58.7	43.9	47.9	58.1	41.3
1978	49.4	57.2	43.9	49.9	58.4	44.1	49.3	51.1	48.5
1979	49.3	58.3	43.0	49.6	59.0	43.1	46.7	49.9	44.3
1980	50.4	58.7	44.5	50.4	58.6	44.6	55.6	63.5	49.5
1981	50.9	59.9	44.5	51.2	60.3	44.8	50.5	58.4	44.9
1982	49.7	59.2	42.9	50.1	59.9	43.3	48.9	55.1	44.5
1983	50.4	59.8	43.6	50.7	60.4	43.8	53.8	61.0	49.0
1984	51.5	61.6	44.2	52.2	62.9	44.6	50.0	54.8	47.3
1985	52.8	63.0	45.3	53.2	63.4	45.9	52.2	60.7	46.0
1986	51.1	61.8	43.3	51.2	62.3	43.1	52.7	59.8	47.6
1987	49.8	61.2	41.6	49.6	61.3	41.2	53.5	61.3	48.3
1988	48.6	59.5	40.6	48.5	59.8	40.2	50.9	58.1	46.0
1989	48.8	59.4	41.0	48.7	59.2	41.0	52.6	64.4	44.6
1990	48.2	58.8	40.4	48.0	58.8	40.1	53.6	59.9	49.4
1991	47.3	57.9	39.4	46.9	57.7	38.8	53.0	62.7	46.1
1992	46.3	56.3	38.8	45.9	56.2	38.2	52.5	62.7	45.8
1993	45.0	54.2	38.0	44.4	53.6	37.3	51.4	61.4	44.3
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
All ages	47.1	57.3	39.5	46.7	57.0	39.1	52.6	62.2	46.0
Under 65	17.9	20.9	15.1	17.3	20.3	14.5	23.1	25.9	20.7
65 and over	313.2	388.8	261.7	315.4	392.6	263.4	322.3	393.5	276.9
All ages (world std.) ^λ	35.5	42.9	29.7	35.1	42.6	29.2	40.6	47.6	35.6
<u>AGE-SPECIFIC RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
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	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.4	0.0
20-24	0.5	0.6	0.4	0.5	0.5	0.4	0.4	0.7	0.2
25-29	1.6	1.8	1.4	1.4	1.7	1.2	1.8	2.4	1.2
30-34	3.2	3.6	2.9	3.1	3.5	2.6	3.4	2.6	4.1
35-39	6.5	6.7	6.3	5.8	6.0	5.6	10.3	10.0	10.5
40-44	12.6	12.7	12.5	11.7	11.5	11.9	17.4	18.7	16.2
45-49	25.4	27.5	23.3	23.8	25.6	22.1	36.1	43.5	29.7
50-54	50.7	57.9	43.7	47.9	55.7	40.3	73.1	77.9	69.1
55-59	90.3	109.0	72.9	88.3	107.5	69.9	116.2	130.5	104.6
60-64	141.2	169.9	115.6	139.1	166.8	113.7	165.3	190.4	145.4
65-69	210.0	264.0	165.9	210.2	264.4	164.9	234.3	290.9	191.4
70-74	289.3	359.7	235.6	290.4	362.0	235.6	316.7	368.0	281.3
75-79	377.7	464.7	319.5	381.4	468.0	324.0	371.0	465.5	313.7
80-84	462.9	577.0	400.3	468.9	587.4	406.0	453.7	578.6	387.6
85+	486.3	593.5	444.9	492.7	609.5	449.3	427.1	497.7	396.7

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

^λ SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table VI-4
COLON 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>									
YEAR OF DIAGNOSIS:									
1973	31.7	34.3	30.2	32.0	34.8	30.2	30.8	31.7	29.9
1974	32.9	36.9	30.2	33.4	37.6	30.5	30.0	34.4	27.0
1975	32.6	35.5	30.8	32.9	36.1	30.9	33.7	34.7	32.7
1976	34.1	37.7	31.7	34.3	37.9	32.0	34.1	35.8	32.5
1977	34.6	38.7	31.8	35.1	39.2	32.3	35.4	43.9	30.0
1978	34.6	38.4	32.0	34.7	39.0	32.0	37.9	37.9	38.3
1979	34.3	39.0	31.0	34.4	39.5	30.9	35.2	36.3	34.5
1980	35.5	39.3	33.0	35.4	39.3	32.9	43.1	45.8	41.1
1981	35.6	40.1	32.6	35.8	40.3	32.8	37.8	41.0	35.7
1982	35.8	41.6	31.7	35.9	42.0	31.7	38.2	41.7	35.6
1983	36.0	41.3	32.3	36.2	41.5	32.5	40.1	46.3	36.1
1984	36.5	42.6	32.3	36.8	43.3	32.3	38.9	41.8	37.4
1985	37.6	43.2	33.6	37.8	43.4	33.9	40.8	47.0	36.1
1986	36.8	42.6	32.5	36.7	43.0	32.2	40.0	44.5	37.1
1987	35.4	42.4	30.6	35.1	42.1	30.3	41.5	47.5	37.4
1988	34.6	41.1	30.0	34.4	41.2	29.6	39.2	43.1	36.6
1989	34.6	40.8	30.1	34.4	40.5	30.2	40.1	48.9	34.2
1990	34.5	40.4	30.3	34.3	40.1	30.0	41.7	46.4	38.6
1991	34.2	40.6	29.5	33.8	40.4	28.9	41.3	46.5	37.6
1992	33.2	39.0	29.0	32.9	38.9	28.5	40.4	47.1	36.1
1993	32.5	38.1	28.3	31.9	37.5	27.6	40.5	46.8	36.1
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
All ages	33.8	39.8	29.4	33.4	39.5	29.0	40.8	47.2	36.6
Under 65	12.0	13.5	10.6	11.5	13.0	10.0	17.1	18.6	15.8
65 and over	232.8	279.3	201.5	233.9	281.0	202.6	257.0	307.6	225.6
All ages (world std.) ^λ	25.1	29.4	21.9	24.8	29.1	21.4	31.2	35.6	28.1
<u>AGE-SPECIFIC RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
20-24	0.3	0.4	0.2	0.3	0.3	0.2	0.4	0.7	0.2
25-29	1.0	1.0	0.9	0.9	1.0	0.9	0.8	1.2	0.5
30-34	2.2	2.5	2.0	2.1	2.5	1.8	2.4	1.6	3.0
35-39	4.3	4.5	4.1	3.8	3.9	3.8	7.1	7.3	6.8
40-44	8.3	8.3	8.4	7.5	7.3	7.8	13.9	14.1	13.8
45-49	16.9	17.8	16.0	15.9	16.7	15.2	23.8	28.0	20.2
50-54	33.1	37.8	28.5	31.0	36.7	25.4	52.5	51.9	53.0
55-59	60.2	69.5	51.6	58.1	67.4	49.2	87.6	98.0	79.1
60-64	96.0	109.7	83.8	93.7	107.0	81.4	126.9	141.1	115.7
65-69	148.0	179.0	122.5	147.8	179.1	121.8	181.9	213.2	158.1
70-74	208.6	250.3	176.8	208.4	250.2	176.5	248.7	286.1	222.8
75-79	283.8	338.1	247.5	285.8	338.9	250.7	295.3	362.4	254.6
80-84	359.2	433.4	318.5	363.4	439.2	323.1	375.5	482.2	319.1
85+	391.7	466.2	362.9	396.7	477.5	366.7	358.7	419.3	332.5

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

λ SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table VI-5
RECTUM 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>									
YEAR OF DIAGNOSIS:									
1973	14.7	18.9	11.4	14.9	19.5	11.5	11.5	11.1	11.8
1974	14.8	19.2	11.4	15.0	19.8	11.4	11.5	12.4	10.9
1975	14.8	18.6	11.9	14.9	19.0	12.0	11.8	12.9	10.8
1976	15.0	19.6	11.5	15.2	19.9	11.8	10.2	13.1	7.8
1977	14.9	19.2	11.7	14.9	19.5	11.7	12.5	14.2	11.3
1978	14.8	18.8	11.9	15.2	19.4	12.1	11.4	13.2	10.2
1979	15.1	19.2	12.0	15.2	19.5	12.2	11.4	13.6	9.9
1980	14.9	19.4	11.5	15.0	19.3	11.8	12.5	17.7	8.5
1981	15.2	19.8	11.9	15.4	20.0	12.1	12.7	17.5	9.3
1982	13.9	17.6	11.3	14.2	17.9	11.5	10.7	13.4	8.9
1983	14.4	18.6	11.2	14.6	18.9	11.4	13.7	14.6	12.9
1984	15.1	19.1	11.9	15.5	19.6	12.3	11.2	13.0	9.9
1985	15.1	19.7	11.7	15.4	20.1	12.0	11.4	13.6	9.9
1986	14.4	19.2	10.8	14.4	19.3	10.8	12.7	15.4	10.5
1987	14.3	18.8	11.0	14.5	19.2	10.9	11.9	13.7	10.9
1988	13.9	18.4	10.6	14.0	18.6	10.7	11.8	15.0	9.4
1989	14.2	18.5	10.9	14.2	18.7	10.8	12.6	15.5	10.4
1990	13.7	18.4	10.1	13.8	18.7	10.1	11.9	13.6	10.8
1991	13.1	17.3	9.9	13.1	17.3	9.9	11.7	16.2	8.5
1992	13.1	17.3	9.8	13.0	17.3	9.7	12.1	15.5	9.7
1993	12.5	16.1	9.7	12.5	16.0	9.7	10.9	14.7	8.1
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
All ages	13.3	17.5	10.1	13.3	17.6	10.0	11.8	15.1	9.5
Under 65	5.9	7.4	4.6	5.8	7.3	4.5	6.0	7.3	4.9
65 and over	80.4	109.4	60.2	81.5	111.6	60.8	65.2	85.9	51.4
All ages (world std.) ^λ	10.3	13.5	7.8	10.3	13.5	7.8	9.4	12.0	7.5
<u>AGE-SPECIFIC RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
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	0.1	0.0	0.0	0.1	0.1	0.2	0.0
20-24	0.2	0.2	0.1	0.2	0.2	0.2	0.0	0.0	0.0
25-29	0.6	0.8	0.5	0.5	0.7	0.4	1.0	1.2	0.8
30-34	1.0	1.1	0.8	0.9	1.1	0.8	1.1	1.0	1.1
35-39	2.2	2.2	2.2	1.9	2.0	1.8	3.2	2.7	3.7
40-44	4.3	4.4	4.1	4.2	4.2	4.1	3.4	4.6	2.4
45-49	8.5	9.7	7.3	7.9	8.9	6.9	12.3	15.5	9.5
50-54	17.6	20.1	15.2	16.9	19.0	14.9	20.7	26.0	16.1
55-59	30.1	39.5	21.3	30.1	40.1	20.6	28.6	32.5	25.5
60-64	45.2	60.1	31.8	45.4	59.8	32.3	38.4	49.4	29.7
65-69	62.0	85.0	43.0	62.3	85.3	43.2	52.4	77.7	33.2
70-74	80.7	109.3	58.9	82.0	111.8	59.1	68.0	81.9	58.5
75-79	93.9	126.7	72.0	95.6	129.1	73.4	75.7	103.1	59.1
80-84	103.7	143.6	81.8	105.5	148.1	82.8	78.2	96.4	68.5
85+	94.7	127.3	82.0	96.0	132.1	82.6	68.4	78.4	64.1

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

λ SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table VI-6
COLON AND RECTUM CANCER (Invasive)
 U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^δ, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
YEAR OF DEATH:									
1973	21.9	24.9	19.8	22.0	25.3	19.8	21.0	22.0	20.4
1974	22.2	25.8	19.7	22.3	26.0	19.8	21.2	23.6	19.5
1975	21.7	25.3	19.3	21.9	25.6	19.3	21.5	23.9	19.7
1976	22.0	25.6	19.5	22.1	25.9	19.5	22.3	24.4	20.8
1977	21.8	25.6	19.1	21.8	25.7	19.1	22.0	25.0	19.9
1978	21.9	25.9	19.2	22.0	26.1	19.2	21.9	24.4	20.2
1979	21.7	25.7	18.9	21.7	25.9	18.8	22.4	24.8	20.8
1980	21.5	25.8	18.6	21.5	25.9	18.5	22.7	26.1	20.3
1981	21.1	25.2	18.2	21.1	25.3	18.1	22.7	25.7	20.7
1982	20.9	25.2	18.0	20.8	25.2	17.8	23.0	26.4	20.6
1983	20.8	25.3	17.7	20.8	25.4	17.6	22.7	26.1	20.3
1984	21.0	25.3	18.0	20.9	25.3	17.8	23.3	27.3	20.6
1985	20.6	25.1	17.5	20.5	25.1	17.2	24.0	27.0	21.8
1986	20.1	24.5	17.0	19.9	24.5	16.7	23.3	27.5	20.6
1987	19.9	24.4	16.7	19.6	24.3	16.4	23.7	27.8	20.9
1988	19.3	23.7	16.3	19.1	23.6	16.0	22.9	27.0	20.2
1989	19.1	23.5	15.9	18.8	23.2	15.6	23.5	28.3	20.3
1990	18.8	23.4	15.6	18.4	23.1	15.2	24.0	29.2	20.7
1991	18.3	22.6	15.4	18.0	22.3	15.0	23.3	27.7	20.5
1992	18.0	22.3	15.0	17.7	22.0	14.6	23.0	28.0	19.8
1993	17.9	21.8	15.0	17.5	21.5	14.5	23.3	27.9	20.3
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DEATH:									
All ages	18.4	22.7	15.4	18.1	22.4	15.0	23.4	28.2	20.3
Under 65	6.1	7.2	5.1	5.9	7.0	4.8	8.8	10.3	7.5
65 and over	130.8	164.1	109.2	129.5	163.3	107.5	157.3	191.4	137.2
All ages (world std.) ^φ	13.5	16.6	11.2	13.2	16.4	10.9	17.5	21.0	15.2
<u>AGE-SPECIFIC RATES, 1989-93</u>									
AGE AT DEATH:									
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	0.1	0.1	0.1	0.0	0.1	0.0	0.2	0.2	0.1
20-24	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.4	0.4
25-29	0.5	0.5	0.4	0.4	0.5	0.4	0.8	1.0	0.6
30-34	0.9	1.0	0.8	0.8	0.9	0.8	1.3	1.5	1.2
35-39	2.0	2.1	1.8	1.8	2.0	1.7	3.1	3.4	2.9
40-44	4.0	4.3	3.8	3.8	4.1	3.5	6.4	7.1	5.9
45-49	8.3	9.3	7.3	7.8	8.8	6.8	13.3	15.0	11.8
50-54	17.0	19.5	14.7	16.1	18.5	13.9	26.8	31.3	23.2
55-59	30.6	36.5	25.3	29.5	35.4	24.0	44.3	52.4	38.0
60-64	49.9	61.7	39.5	48.9	60.8	38.3	64.4	77.6	54.4
65-69	75.1	94.6	59.2	73.6	93.4	57.3	98.9	118.8	84.4
70-74	108.5	136.5	87.5	107.0	135.6	85.2	136.2	160.7	119.9
75-79	151.2	191.7	124.7	149.8	190.3	123.1	182.5	228.6	155.3
80-84	208.1	262.0	179.2	207.0	262.1	177.6	240.3	293.1	213.1
85+	300.2	367.5	274.3	300.6	368.3	274.9	314.3	389.2	283.1

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

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

Table VI-7
COLON AND RECTUM CANCER (Invasive)

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

	<u>All Races</u>			<u>Whites</u>			<u>Blacks</u>		
	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-63 ^a	-	-	-	-	-	-	-	-	-
1970-73 ^a	-	-	-	-	-	-	-	-	-
1974-76 ^b	49.5	48.7	50.3	49.8	49.0	50.5	44.6	41.4	47.3
1977-79 ^b	51.8	50.5	52.9	52.1	51.1	53.2	45.4	43.3	47.0
1980-82 ^b	54.3	53.8	54.8	54.8	54.4	55.2	46.3	43.4	48.8
1983-85 ^b	57.4	57.7	57.2	58.3	58.6	58.0	47.8	46.8	48.6
1986-92 ^b	61.4 Ω	62.1 Ω	60.8 Ω	62.2 Ω	63.0 Ω	61.4 Ω	53.3 Ω	51.8 Ω	54.6 Ω
1986-92 ^b									
ALL STAGES	61.4	62.1	60.8	62.2	63.0	61.4	53.3	51.8	54.6
LOCALIZED	91.4	92.3	90.4	92.0	93.0	90.9	86.2	87.9	84.9
REGIONAL	63.4	63.4	63.4	63.9	64.2	63.5	60.1	56.4	63.2
DISTANT	7.1	6.7	7.6	7.3	6.7	7.9	5.2	6.3	4.3
UNSTAGED	34.8	38.3	31.3	35.1	39.8	30.5	34.9	34.2	36.2
<u>STAGE DISTRIBUTION (%) 1986-92^b</u>									
ALL STAGES									
Number of cases	72,535	37,186	35,349	62,618	32,057	30,561	5,923	2,826	3,097
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	37	38	36	38	39	37	32	32	32
REGIONAL	37	36	38	37	36	38	36	35	37
DISTANT	19	20	19	19	19	19	25	26	23
UNSTAGED	6	6	6	6	6	6	8	7	8
<u>5-YR RELATIVE SURVIVAL RATES, 1986-92^b</u>									
AGE AT DIAGNOSIS:									
<45	57.9	56.6	59.3	58.9	57.0	60.9	54.7	51.9	57.1
45-54	61.9	60.7	63.4	62.8	62.0	63.7	56.7	51.9	62.1
55-64	63.0	63.0	62.9	63.2	63.4	62.8	58.3	56.1	60.1
65-74	63.4	65.1	61.5	64.3	66.1	62.3	52.2	53.3	51.4
75+	58.6	58.3	58.8	59.5	59.6	59.5	46.0	42.3	48.3
Under 65	62.0	61.6	62.5	62.5	62.3	62.7	57.2	54.1	60.3
65 and over	61.2	62.5	60.0	62.1	63.6	60.8	49.8	49.4	50.1

^a Rates are based on End Results data from a series of hospital registries and one population-based registry.

^b 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 1993.

Ω The difference in rates between 1974-76 and 1986-92 is statistically significant ($p < .05$).

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

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

- Statistic could not be calculated.

Table VI-8
COLON 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 ^a	-	-	-	43	42	44	34	32	35
1970-73 ^a	-	-	-	49	47	50	37	36	38
1974-76 ^b	50.1	49.4	50.7	50.4	49.7	50.9	45.6	44.1	46.7
1977-79 ^b	52.7	51.5	53.7	52.8	51.7	53.8	47.8	45.4	49.7
1980-82 ^b	55.3	55.6	55.1	55.6	56.0	55.3	49.0	46.5	50.9
1983-85 ^b	58.2	59.0	57.6	59.1	59.9	58.4	49.1	48.5	49.5
1986-92 ^b	62.2Ω	63.2Ω	61.2Ω	62.9Ω	64.2Ω	61.8Ω	53.4Ω	52.0Ω	54.7Ω
1986-92 ^b									
ALL STAGES	62.2	63.2	61.2	62.9	64.2	61.8	53.4	52.0	54.7
LOCALIZED	93.0	94.6	91.5	93.7	95.3	92.1	86.9	88.9	85.3
REGIONAL	66.7	66.7	66.6	67.0	67.6	66.5	64.4	59.9	67.9
DISTANT	7.8	7.6	8.0	8.1	7.7	8.4	5.3	6.3	4.6
UNSTAGED	32.6	37.1	28.8	33.1	38.9	28.3	31.6	34.3↑	29.6↑
STAGE DISTRIBUTION (%) 1986-92^b									
ALL STAGES									
Number of cases	51,625	25,247	26,378	44,419	21,673	22,746	4,526	2,102	2,424
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	36	37	34	36	37	35	30	31	30
REGIONAL	38	37	40	39	37	40	36	34	38
DISTANT	21	21	20	20	21	20	27	29	25
UNSTAGED	5	5	6	5	5	6	7	7	7
5-YR RELATIVE SURVIVAL RATES, 1986-92^b									
AGE AT DIAGNOSIS:									
<45	58.1	58.7	57.4	59.0	59.4	58.6	54.8	53.7↑	55.6
45-54	60.6	60.4	60.7	61.6	62.1	61.1	56.0	52.6	58.7
55-64	63.4	64.2	62.5	63.6	64.6	62.4	58.1	56.8	58.9
65-74	64.1	66.2	62.0	65.0	67.2	62.6	52.5	53.0	52.2
75+	60.3	60.1	60.4	61.2	61.4	61.1	47.6	42.3	51.0
Under 65	62.0	62.6	61.3	62.6	63.4	61.6	56.9	55.1	58.4
65 and over	62.3	63.7	61.1	63.2	64.8	61.8	50.6	49.3	51.7

^a Rates are based on End Results data from a series of hospital registries and one population-based registry.

^b 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 1993.

Ω The difference in rates between 1974-76 and 1986-92 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 VI-9
RECTUM 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 ^a	-	-	-	38	36	41	27	28	27
1970-73 ^a	-	-	-	45	43	48	30	20	40
1974-76 ^b	48.3	47.4	49.3	48.6	47.8	49.6	42.0	34.7	49.1
1977-79 ^b	49.8	48.8	50.9	50.6	49.8	51.6	38.3	38.0	38.6
1980-82 ^b	51.9	50.2	53.9	52.9	51.4	54.7	37.8	35.9	40.3
1983-85 ^b	55.6	55.1	56.2	56.6	56.1	57.1	43.9	42.1	45.6
1986-92 ^b	59.8Ω	59.8Ω	59.9Ω	60.5Ω	60.6Ω	60.4Ω	52.8Ω	51.2Ω	54.4
1986-92 ^b									
ALL STAGES	59.8	59.8	59.9	60.5	60.6	60.4	52.8	51.2	54.4
LOCALIZED	88.1	88.3	87.8	88.6	89.0	88.1	84.6	85.0	83.7
REGIONAL	54.9	56.2	53.3	55.7	57.0	54.1	46.2	47.3	45.1
DISTANT	5.0	4.6	5.7	5.1	4.3	6.3	5.1	6.6	3.5
UNSTAGED	38.1	39.8	36.0	38.0	41.1	34.3	41.5↑	33.8↑	53.0↑
STAGE DISTRIBUTION (%) 1986-92^b									
ALL STAGES									
Number of cases	20,910	11,939	8,971	18,199	10,384	7,815	1,397	724	673
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	42	41	43	42	42	43	37	35	40
REGIONAL	35	35	34	34	35	34	34	36	33
DISTANT	16	16	15	16	16	15	18	19	17
UNSTAGED	8	8	8	8	7	8	10	10	9
5-YR RELATIVE SURVIVAL RATES, 1986-92^b									
AGE AT DIAGNOSIS:									
<45	57.5	52.4	63.4	58.6	52.5	65.4	54.3↑	47.9↑	61.2↑
45-54	64.3	61.2	69.0	64.8	62.0	69.0	57.6	50.5↑	68.2↑
55-64	62.1	60.9	64.1	62.4	61.5	63.9	59.1	54.5↑	63.9
65-74	61.7	62.8	60.1	62.8	63.9	61.3	51.3	53.4↑	48.8
75+	53.4	53.9	53.0	54.3	55.0	53.6	39.7	40.7↑	38.0↑
Under 65	62.0	60.0	65.2	62.5	60.6	65.3	57.9	52.0	65.4
65 and over	58.3	59.6	56.7	59.2	60.7	57.6	46.9	49.7	44.5

^a Rates are based on End Results data from a series of hospital registries and one population-based registry.

^b 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 1993.

Ω The difference in rates between 1974-76 and 1986-92 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 VI-10
COLON AND RECTUM CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

Year of Diagnosis/Death

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Incidence																					
SEER	46.4	47.7	47.4	49.1	49.5	49.4	49.3	50.4	50.9	49.7	50.4	51.5	52.8	51.1	49.8	48.6	48.8	48.2	47.3	46.3	45.0
Mortality																					
U.S.	21.9	22.2	21.7	22.0	21.8	21.9	21.7	21.5	21.1	20.9	20.8	21.0	20.6	20.1	19.9	19.3	19.1	18.8	18.3	18.0	17.9
SEER	21.8	22.6	22.0	22.1	22.2	22.0	21.8	21.1	20.6	20.7	19.6	20.3	20.8	19.2	19.0	18.4	18.7	17.8	17.3	17.0	16.9
Relative Survival Rates (SEER)																					
1-year	70.9	72.2	73.0	74.7	74.6	74.9	76.0	75.6	78.5	78.4	78.2	79.1	80.0	81.5	81.1	80.6	81.5	82.1	82.7	81.8	
2-year	60.1	61.3	61.4	62.8	63.5	64.5	65.5	65.3	68.7	68.0	67.7	68.9	71.2	72.4	72.3	72.4	72.7	73.8	74.1		
3-year	53.7	54.6	55.7	56.8	57.3	58.2	58.9	58.5	62.0	62.2	61.6	62.8	65.6	67.1	66.9	67.1	68.1	68.9			
4-year	49.3	50.6	51.7	53.0	53.7	54.2	55.2	54.8	57.6	58.2	58.0	59.3	62.1	63.6	63.0	63.6	64.2				
5-year	46.7	48.2	49.1	51.1	51.1	51.4	52.8	52.2	55.3	55.3	55.9	56.5	59.8	61.3	60.8	61.2					
6-year	45.8	46.6	47.2	49.5	49.3	49.6	51.1	50.5	53.6	53.5	54.0	54.9	58.2	59.4	59.1						
7-year	44.8	45.4	46.2	48.5	48.4	48.6	49.8	49.4	52.0	52.4	52.7	53.6	57.0	58.0							
8-year	44.5	45.0	45.4	47.9	47.3	47.9	48.8	48.4	51.4	51.3	51.7	53.2	56.3								
9-year	43.9	44.3	45.1	47.3	46.5	47.5	48.5	48.0	50.7	51.0	51.0	52.5									
10-year	43.4	44.1	44.3	47.0	46.2	46.9	47.9	47.6	50.3	50.9	50.3										
11-year	43.3	43.6	44.0	46.6	46.2	46.6	47.4	47.0	50.3	50.5											
12-year	42.6	43.4	43.9	46.0	46.1	46.6	46.9	47.0	50.3												
13-year	42.5	43.4	43.7	45.5	46.1	46.4	46.9	47.0													
14-year	41.9	43.0	43.3	45.2	45.5	45.8	46.7														
15-year	41.3	43.0	42.8	44.9	45.3	45.8															
16-year	40.9	42.6	42.2	44.8	44.8																
17-year	40.4	42.6	42.0	44.8																	
18-year	40.2	42.6	41.8																		
19-year	39.9	42.6																			
20-year	39.9																				

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 VI-11
COLON AND RECTUM CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Incidence																					
SEER	53.2	56.2	54.1	57.3	58.0	57.2	58.3	58.7	59.9	59.2	59.8	61.6	63.0	61.8	61.2	59.5	59.4	58.8	57.9	56.3	54.2
Mortality																					
U.S.	24.9	25.8	25.3	25.6	25.6	25.9	25.7	25.8	25.2	25.2	25.3	25.3	25.1	24.5	24.4	23.7	23.5	23.4	22.6	22.3	21.8
SEER	25.4	26.9	25.8	25.9	25.8	26.6	26.0	24.9	24.1	24.8	23.8	24.3	25.8	23.1	22.6	22.6	22.9	21.7	21.4	21.3	20.1
Relative Survival Rates (SEER)																					
1-year	71.6	72.5	72.7	74.8	74.5	74.9	76.2	76.4	79.7	79.5	79.4	79.3	81.4	82.8	82.1	81.5	82.4	83.3	83.6	83.0	
2-year	60.5	61.6	61.8	62.5	62.9	65.0	65.6	66.0	69.1	68.5	68.8	68.5	72.8	73.8	73.7	74.1	73.9	74.7	75.2		
3-year	53.8	54.3	55.7	56.3	56.2	57.7	58.1	59.2	62.2	62.6	62.4	61.8	67.3	68.2	68.0	68.3	69.2	70.2			
4-year	48.6	50.1	51.6	52.5	52.5	53.1	53.9	55.0	57.6	57.9	58.8	58.0	63.3	64.5	63.6	63.8	65.1				
5-year	45.5	47.1	48.6	50.1	49.9	50.5	51.1	52.0	54.7	54.6	56.7	55.4	60.7	62.0	61.3	61.6					
6-year	44.4	45.3	46.2	48.2	47.8	48.2	49.3	50.1	52.5	52.8	54.6	53.5	59.0	59.7	60.1						
7-year	43.4	44.2	44.9	46.9	46.9	47.2	48.0	48.9	50.7	51.6	53.1	52.1	57.5	58.7							
8-year	43.0	43.7	43.9	46.1	46.0	46.7	46.8	48.0	50.5	50.5	51.3	51.6	57.1								
9-year	42.7	42.9	43.8	45.4	44.6	46.4	46.8	47.3	50.2	50.4	50.5	50.5									
10-year	41.9	42.7	42.8	44.9	44.4	45.5	46.1	47.2	49.7	50.1	49.8										
11-year	41.5	41.9	42.8	44.6	44.2	45.0	45.9	47.0	49.3	49.6											
12-year	40.8	41.2	42.6	44.0	43.9	45.0	45.1	46.8	49.3												
13-year	40.8	41.1	42.6	43.0	43.8	44.9	45.1	46.8													
14-year	40.8	41.0	42.5	42.5	43.1	44.2	44.8														
15-year	40.8	41.0	42.4	42.5	43.1	44.2															
16-year	39.9	41.0	42.2	42.5	42.6																
17-year	38.9	41.0	42.1	42.5																	
18-year	38.8	41.0	42.1																		
19-year	38.8	41.0																			
20-year	38.5																				

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 VI-12
COLON AND RECTUM CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Incidence																					
SEER	41.6	41.6	42.7	43.1	43.5	43.9	43.0	44.5	44.5	42.9	43.6	44.2	45.3	43.3	41.6	40.6	41.0	40.4	39.4	38.8	38.0
Mortality																					
U.S.	19.8	19.7	19.3	19.5	19.1	19.2	18.9	18.6	18.2	18.0	17.7	18.0	17.5	17.0	16.7	16.3	15.9	15.6	15.4	15.0	15.0
SEER	19.3	19.6	19.4	19.4	19.8	18.8	18.9	18.5	18.2	18.0	16.8	17.5	17.3	16.4	16.6	15.4	15.8	15.2	14.5	14.0	14.6
Relative Survival Rates (SEER)																					
1-year	70.3	72.0	73.4	74.5	74.8	74.8	75.8	74.8	77.4	77.2	77.1	79.0	78.7	80.1	80.1	79.7	80.6	80.8	81.7	80.6	
2-year	59.8	61.0	60.9	63.1	64.1	64.0	65.5	64.6	68.3	67.6	66.6	69.4	69.7	71.0	70.9	70.6	71.6	72.8	72.9		
3-year	53.7	54.9	55.8	57.2	58.3	58.7	59.6	57.9	61.7	61.8	60.8	63.9	63.8	66.1	65.8	65.8	67.0	67.7			
4-year	50.0	51.2	51.8	53.5	54.9	55.3	56.5	54.7	57.6	58.6	57.2	60.6	60.8	62.6	62.5	63.4	63.4				
5-year	47.9	49.3	49.6	51.9	52.2	52.3	54.3	52.5	55.9	56.0	55.1	57.6	58.9	60.6	60.3	60.7					
6-year	47.0	47.7	48.2	50.6	50.6	50.9	52.8	50.9	54.5	54.2	53.4	56.3	57.4	59.1	58.2						
7-year	46.1	46.6	47.4	50.0	49.8	49.8	51.4	49.9	53.3	53.1	52.4	55.0	56.5	57.3							
8-year	45.7	46.2	46.7	49.5	48.5	49.1	50.7	48.8	52.3	52.0	52.0	54.8	55.5								
9-year	45.0	45.6	46.3	49.1	48.3	48.5	50.0	48.6	51.2	51.5	51.5	54.3									
10-year	44.6	45.3	45.6	48.8	47.8	48.1	49.6	47.9	50.9	51.5	50.8										
11-year	44.6	45.2	45.0	48.3	47.8	47.9	48.7	47.1	50.9	51.3											
12-year	44.1	45.2	45.0	47.8	47.8	47.9	48.5	47.1	50.9												
13-year	43.5	45.2	44.5	47.7	47.8	47.7	48.4	46.7													
14-year	42.5	44.8	44.0	47.5	47.5	47.1	48.4														
15-year	41.7	44.4	43.1	46.9	47.1	47.1															
16-year	41.7	43.8	42.2	46.5	46.6																
17-year	41.5	43.8	42.0	46.5																	
18-year	41.2	43.6	41.4																		
19-year	40.6	43.6																			
20-year	40.6																				

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 VI-13
COLON AND RECTUM 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, 1991-93

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	6.02	0.00	0.00	0.01	5.77
10	0.00	0.01	0.06	6.10	0.00	0.01	0.05	5.83
20	0.01	0.06	0.24	6.14	0.01	0.05	0.22	5.85
30	0.05	0.23	0.95	6.23	0.04	0.21	0.73	5.87
40	0.19	0.92	2.53	6.35	0.17	0.70	1.85	5.88
50	0.76	2.44	4.67	6.43	0.54	1.72	3.60	5.83
60	1.84	4.27	5.88	6.21	1.25	3.24	5.03	5.59

Lifetime Risk of Being Diagnosed = 6.02% Lifetime Risk of Being Diagnosed = 5.77%
 Lifetime Risk of Dying = 2.54% Lifetime Risk of Dying = 2.54%

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	6.15	0.00	0.00	0.01	5.80
10	0.00	0.01	0.05	6.21	0.00	0.01	0.05	5.84
20	0.01	0.05	0.22	6.25	0.01	0.05	0.21	5.86
30	0.04	0.22	0.92	6.32	0.04	0.20	0.68	5.87
40	0.18	0.90	2.53	6.43	0.16	0.65	1.81	5.88
50	0.75	2.44	4.69	6.49	0.50	1.68	3.58	5.83
60	1.84	4.29	5.93	6.24	1.24	3.24	5.06	5.60

Lifetime Risk of Being Diagnosed = 6.15% Lifetime Risk of Being Diagnosed = 5.80%
 Lifetime Risk of Dying = 2.61% Lifetime Risk of Dying = 2.56%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.02	4.52	0.00	0.00	0.00	5.23
10	0.00	0.02	0.07	4.64	0.00	0.00	0.07	5.34
20	0.02	0.07	0.33	4.71	0.00	0.07	0.29	5.36
30	0.06	0.33	1.10	4.89	0.07	0.29	1.02	5.41
40	0.29	1.10	2.54	5.13	0.22	0.98	2.15	5.46
50	0.90	2.49	4.22	5.35	0.79	2.02	3.73	5.49
60	1.91	4.00	5.06	5.35	1.36	3.25	4.59	5.21

Lifetime Risk of Being Diagnosed = 4.52% Lifetime Risk of Being Diagnosed = 5.23%
 Lifetime Risk of Dying = 1.98% Lifetime Risk of Dying = 2.52%

Table VI-14
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY^δ RATES BY STATE, 1989-93

All Races, Males and Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	18.4	0.04							
High Five States									
District of Columbia	23.8 ^{⊕*}	0.83	(01)	29.3					
New Jersey	21.8 ^{⊕*}	0.21	(02)	18.5					
Massachusetts	21.4 ^{⊕*}	0.24	(03)	16.3					
Maryland	21.3 ^{⊕*}	0.29	(04)	15.8					
Delaware	21.1 [*]	0.74	(05)	14.7					
Low Five States									
Arizona	15.4 ^{⊕*}	0.26	(47)	-16.3					
Wyoming	14.8 [*]	0.79	(48)	-19.6					
Idaho	14.7 ^{⊕*}	0.50	(49)	-20.1					
New Mexico	14.2 ^{⊕*}	0.42	(50)	-22.8					
Utah	13.5 ^{⊕*}	0.42	(51)	-26.6					
Alabama	16.0 ^{⊕*}	0.25	(43)	-13.0	Montana	17.2	0.58	(33)	-6.5
Alaska	18.8	1.27	(19)	2.2	Nebraska	17.9	0.42	(28)	-2.7
Arizona	15.4 ^{⊕*}	0.26	(47)	-16.3	Nevada	17.2	0.52	(34)	-6.5
Arkansas	17.7	0.34	(29)	-3.8	New Hampshire	19.8	0.57	(13)	7.6
California	16.4 ^{⊕*}	0.10	(40)	-10.9	New Jersey	21.8 ^{⊕*}	0.21	(02)	18.5
Colorado	16.4 ^{⊕*}	0.31	(41)	-10.9	New Mexico	14.2 ^{⊕*}	0.42	(50)	-22.8
Connecticut	18.8	0.30	(20)	2.2	New York	20.4 ^{⊕*}	0.14	(10)	10.9
Delaware	21.1 [*]	0.74	(05)	14.7	North Carolina	17.2 [⊕]	0.21	(35)	-6.5
District of Columbia	23.8 ^{⊕*}	0.83	(01)	29.3	North Dakota	18.1	0.67	(26)	-1.6
Florida	17.0 [⊕]	0.13	(36)	-7.6	Ohio	20.4 ^{⊕*}	0.17	(11)	10.9
Georgia	16.1 ^{⊕*}	0.22	(42)	-12.5	Oklahoma	16.6 [⊕]	0.29	(38)	-9.8
Hawaii	15.8 [*]	0.51	(46)	-14.1	Oregon	15.9 ^{⊕*}	0.30	(44)	-13.6
Idaho	14.7 ^{⊕*}	0.50	(49)	-20.1	Pennsylvania	20.9 ^{⊕*}	0.16	(06)	13.6
Illinois	20.5 ^{⊕*}	0.17	(09)	11.4	Rhode Island	20.6 [*]	0.55	(08)	12.0
Indiana	19.6	0.24	(14)	6.5	South Carolina	17.6	0.30	(30)	-4.3
Iowa	19.4	0.32	(15)	5.4	South Dakota	18.6	0.64	(22)	1.1
Kansas	17.4	0.34	(31)	-5.4	Tennessee	17.9	0.24	(27)	-2.7
Kentucky	20.1 [⊕]	0.30	(12)	9.2	Texas	16.7 [⊕]	0.14	(37)	-9.2
Louisiana	18.9	0.29	(18)	2.7	Utah	13.5 ^{⊕*}	0.42	(51)	-26.6
Maine	20.8 [*]	0.52	(07)	13.0	Vermont	18.4	0.76	(23)	0.0
Maryland	21.3 ^{⊕*}	0.29	(04)	15.8	Virginia	18.2	0.23	(24)	-1.1
Massachusetts	21.4 ^{⊕*}	0.24	(03)	16.3	Washington	15.9 ^{⊕*}	0.24	(45)	-13.6
Michigan	19.1	0.19	(17)	3.8	West Virginia	19.1	0.39	(16)	3.8
Minnesota	17.3	0.26	(32)	-6.0	Wisconsin	18.2	0.24	(25)	-1.1
Mississippi	16.5 ^{⊕*}	0.33	(39)	-10.3	Wyoming	14.8 [*]	0.79	(48)	-19.6
Missouri	18.7	0.24	(21)	1.6					

^δ 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.

⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table VI-15
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY^δ RATES BY STATE, 1989-93

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	22.7	0.06		
High Five States				
District of Columbia	28.5 [⊛]	1.44	(01)	25.6
Massachusetts	27.6 [⊕] [⊛]	0.43	(02)	21.6
New Jersey	27.3 [⊕] [⊛]	0.37	(03)	20.3
Delaware	26.9 [⊛]	1.30	(04)	18.5
Rhode Island	26.2 [⊛]	0.98	(05)	15.4
Low Five States				
Oregon	18.7 [⊕] [⊛]	0.49	(47)	-17.6
Idaho	18.3 [⊕] [⊛]	0.83	(48)	-19.4
New Mexico	17.3 [⊕] [⊛]	0.70	(49)	-23.8
Wyoming	17.0 [⊛]	1.28	(50)	-25.1
Utah	17.0 [⊕] [⊛]	0.72	(51)	-25.1

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	19.7 [⊕] [⊛]	0.44	(42)	-13.2	Montana	21.0	0.97	(32)	-7.5
Alaska	19.7 [⊛]	1.94	(41)	-13.2	Nebraska	23.0	0.73	(21)	1.3
Arizona	18.9 [⊕] [⊛]	0.44	(46)	-16.7	Nevada	20.5	0.85	(36)	-9.7
Arkansas	22.3	0.58	(25)	-1.8	New Hampshire	24.5	0.99	(13)	7.9
California	19.7 [⊕] [⊛]	0.18	(40)	-13.2	New Jersey	27.3 [⊕] [⊛]	0.37	(03)	20.3
Colorado	19.5 [⊕] [⊛]	0.53	(43)	-14.1	New Mexico	17.3 [⊕] [⊛]	0.70	(49)	-23.8
Connecticut	23.5	0.52	(19)	3.5	New York	25.5 [⊕] [⊛]	0.24	(09)	12.3
Delaware	26.9 [⊛]	1.30	(04)	18.5	North Carolina	21.0	0.37	(33)	-7.5
District of Columbia	28.5 [⊛]	1.44	(01)	25.6	North Dakota	22.5	1.12	(24)	-0.9
Florida	20.8 [⊕]	0.22	(35)	-8.4	Ohio	25.4 [⊕] [⊛]	0.31	(10)	11.9
Georgia	19.9 [⊕] [⊛]	0.39	(39)	-12.3	Oklahoma	20.1 [⊕] [⊛]	0.49	(38)	-11.5
Hawaii	19.3 [⊛]	0.82	(44)	-15.0	Oregon	18.7 [⊕] [⊛]	0.49	(47)	-17.6
Idaho	18.3 [⊕] [⊛]	0.83	(48)	-19.4	Pennsylvania	26.2 [⊕] [⊛]	0.28	(06)	15.4
Illinois	26.0 [⊕] [⊛]	0.31	(07)	14.5	Rhode Island	26.2 [⊛]	0.98	(05)	15.4
Indiana	24.2	0.42	(14)	6.6	South Carolina	21.7	0.54	(30)	-4.4
Iowa	23.7	0.54	(15)	4.4	South Dakota	22.2	1.06	(27)	-2.2
Kansas	21.8	0.58	(29)	-4.0	Tennessee	22.0	0.43	(28)	-3.1
Kentucky	24.5	0.52	(12)	7.9	Texas	20.9 [⊕]	0.24	(34)	-7.9
Louisiana	23.0	0.50	(22)	1.3	Utah	17.0 [⊕] [⊛]	0.72	(51)	-25.1
Maine	25.0 [⊛]	0.88	(11)	10.1	Vermont	22.9	1.31	(23)	0.9
Maryland	26.0 [⊕] [⊛]	0.50	(08)	14.5	Virginia	22.3	0.41	(26)	-1.8
Massachusetts	27.6 [⊕] [⊛]	0.43	(02)	21.6	Washington	19.2 [⊕] [⊛]	0.40	(45)	-15.4
Michigan	23.7	0.33	(17)	4.4	West Virginia	23.7	0.68	(16)	4.4
Minnesota	21.3	0.44	(31)	-6.2	Wisconsin	23.1	0.42	(20)	1.8
Mississippi	20.2 [⊛]	0.57	(37)	-11.0	Wyoming	17.0 [⊛]	1.28	(50)	-25.1
Missouri	23.6	0.41	(18)	4.0					

^δ 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.

[⊕] Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table VI-16
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY^δ RATES BY STATE, 1989-93

All Races, Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	15.4	0.04							
High Five States									
District of Columbia	20.8 ^{⊕*}	1.00	(01)	35.1					
New Jersey	17.9 ^{⊕*}	0.25	(02)	16.2					
Maryland	17.9 ^{⊕*}	0.35	(03)	16.2					
Maine	17.8 [*]	0.63	(04)	15.6					
Alaska	17.7 [*]	1.66	(05)	14.9					
Low Five States									
Hawaii	12.7 [*]	0.63	(47)	-17.5					
Arizona	12.6 ^{⊕*}	0.32	(48)	-18.2					
Idaho	12.1 ^{⊕*}	0.61	(49)	-21.4					
New Mexico	11.8 ^{⊕*}	0.51	(50)	-23.4					
Utah	11.1 ^{⊕*}	0.52	(51)	-27.9					
Alabama	13.5 ^{⊕*}	0.31	(44)	-12.3	Montana	14.1	0.71	(35)	-8.4
Alaska	17.7 [*]	1.66	(05)	14.9	Nebraska	14.0	0.50	(38)	-9.1
Arizona	12.6 ^{⊕*}	0.32	(48)	-18.2	Nevada	14.3	0.63	(31)	-7.1
Arkansas	14.3	0.40	(32)	-7.1	New Hampshire	16.6	0.69	(14)	7.8
California	13.9 [⊕]	0.13	(39)	-9.7	New Jersey	17.9 ^{⊕*}	0.25	(02)	16.2
Colorado	14.1	0.38	(37)	-8.4	New Mexico	11.8 ^{⊕*}	0.51	(50)	-23.4
Connecticut	15.6	0.36	(21)	1.3	New York	17.1 ^{⊕*}	0.16	(09)	11.0
Delaware	16.9	0.87	(11)	9.7	North Carolina	14.6	0.25	(29)	-5.2
District of Columbia	20.8 ^{⊕*}	1.00	(01)	35.1	North Dakota	14.7	0.83	(27)	-4.5
Florida	14.1 [⊕]	0.16	(36)	-8.4	Ohio	16.9 [⊕]	0.21	(12)	9.7
Georgia	13.6 ^{⊕*}	0.26	(43)	-11.7	Oklahoma	14.2	0.35	(34)	-7.8
Hawaii	12.7 [*]	0.63	(47)	-17.5	Oregon	13.7 [*]	0.37	(40)	-11.0
Idaho	12.1 ^{⊕*}	0.61	(49)	-21.4	Pennsylvania	17.4 ^{⊕*}	0.19	(07)	13.0
Illinois	16.7 [⊕]	0.21	(13)	8.4	Rhode Island	17.0 [*]	0.66	(10)	10.4
Indiana	16.4	0.29	(15)	6.5	South Carolina	14.8	0.36	(26)	-3.9
Iowa	16.4	0.39	(16)	6.5	South Dakota	15.7	0.81	(20)	1.9
Kansas	14.2	0.40	(33)	-7.8	Tennessee	15.1	0.29	(25)	-1.9
Kentucky	17.2 [*]	0.36	(08)	11.7	Texas	13.7 ^{⊕*}	0.17	(42)	-11.0
Louisiana	16.0	0.35	(17)	3.9	Utah	11.1 ^{⊕*}	0.52	(51)	-27.9
Maine	17.8 [*]	0.63	(04)	15.6	Vermont	15.3	0.91	(24)	-0.6
Maryland	17.9 ^{⊕*}	0.35	(03)	16.2	Virginia	15.5	0.28	(22)	0.6
Massachusetts	17.4 ^{⊕*}	0.28	(06)	13.0	Washington	13.3 ^{⊕*}	0.29	(45)	-13.6
Michigan	15.8	0.23	(19)	2.6	West Virginia	15.9	0.47	(18)	3.2
Minnesota	14.4	0.32	(30)	-6.5	Wisconsin	14.7	0.29	(28)	-4.5
Mississippi	13.7 [*]	0.39	(41)	-11.0	Wyoming	13.2 [*]	1.01	(46)	-14.3
Missouri	15.4	0.28	(23)	0.0					

^δ 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.
[⊕] Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table VI-17
COLON AND RECTUM CANCER (Invasive)AGE-ADJUSTED SEER INCIDENCE RATES[§], SEER MORTALITY RATES^δ, AND 5-YEAR RELATIVE SURVIVAL RATES[⊙]
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES[§], 1989-93</u>									
REGISTRY									
Standard 9 registries	47.1	57.3	39.5	46.7	57.0	39.1	52.6	62.2	46.0
San Francisco-Oakland	46.5	56.6	39.0	46.9	57.6	38.9	53.5	63.2	46.7
Connecticut	50.1	62.7	41.1	50.1	62.8	40.9	50.4	64.2	42.0
Metropolitan Detroit	51.1	63.8	42.2	49.9	63.9	40.3	54.4	63.0	48.4
Hawaii	48.9	60.2	38.7	55.4	65.6	45.7	-	-	-
Iowa	52.2	61.4	45.5	52.1	61.4	45.5	-	-	-
New Mexico	34.0	41.4	28.0	35.1	42.5	29.0	-	-	-
Seattle-Puget Sound	44.5	53.0	37.8	44.1	52.1	37.7	51.7	75.8	30.6
Utah	35.1	43.0	28.8	34.9	42.7	28.6	-	-	-
Metropolitan Atlanta	45.3	54.8	39.0	43.4	52.9	36.9	51.0	59.7	46.0
San Jose-Monterey	43.5	51.3	37.6	44.2	52.4	38.2	46.1	59.1	35.2
Los Angeles	42.8	52.0	36.1	42.2	51.7	35.3	51.4	59.2	45.8
<u>SEER MORTALITY RATES^δ, 1989-93</u>									
REGISTRY									
Standard 9 registries	17.5	21.5	14.8	17.4	21.4	14.6	22.4	26.1	20.0
San Francisco-Oakland	17.2	20.4	14.9	17.2	20.5	14.9	23.4	26.6	21.0
Connecticut	18.8	23.5	15.6	18.7	23.4	15.6	19.4	24.2	16.5
Metropolitan Detroit	19.4	24.4	16.3	18.5	23.7	15.2	23.3	26.9	20.8
Hawaii	15.8	19.3	12.7	17.9	20.6	15.2	-	-	-
Iowa	19.4	23.7	16.4	19.4	23.7	16.4	-	-	-
New Mexico	14.2	17.3	11.8	14.6	17.8	12.2	-	-	-
Seattle-Puget Sound	16.2	19.6	13.7	16.2	19.5	13.8	19.2	25.8	13.5
Utah	13.5	17.0	11.1	13.6	17.1	11.2	-	-	-
Metropolitan Atlanta	16.7	20.8	14.2	15.5	19.8	12.6	21.8	24.9	20.1
San Jose-Monterey	15.9	19.8	13.1	16.4	20.5	13.6	25.0	28.6	22.4
Los Angeles	16.6	20.3	14.0	16.3	20.2	13.6	23.6	27.6	20.8
<u>SURVIVAL RATES[⊙], 1986-92</u>									
REGISTRY									
Standard 9 registries	61.4	62.1	60.8	62.2	63.0	61.4	53.3	51.8	54.6
San Francisco-Oakland	61.9	63.0	60.8	63.1	64.9	61.3	54.7	52.8	56.4
Connecticut	61.8	62.4	61.3	62.0	62.6	61.4	60.5	60.3	60.7
Metropolitan Detroit	56.9	57.4	56.4	58.6	59.3	57.8	50.6	49.7	51.6
Hawaii	65.3	66.2	64.1	67.7	71.8	62.2	-	-	-
Iowa	62.6	61.9	63.2	62.7	62.1	63.2	-	-	-
New Mexico	60.1	61.1	58.9	60.3	61.6	58.9	-	-	-
Seattle-Puget Sound	64.7	66.2	63.2	65.0	66.7	63.3	59.6	55.1 [↑]	65.8 [↑]
Utah	61.1	62.7	59.3	61.3	63.0	59.3	-	-	-
Metropolitan Atlanta	61.2	60.3	62.0	64.3	63.5	65.1	52.1	49.0	53.6

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in this table and not other tables in this section.

§ SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

δ NCHS public use tape. 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 and are based on follow-up of patients through 1993.

↑ 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 or populations are inadequate.

SEER Incidence and U.S. Mortality Colon & Rectum, Male By Race

White

Black

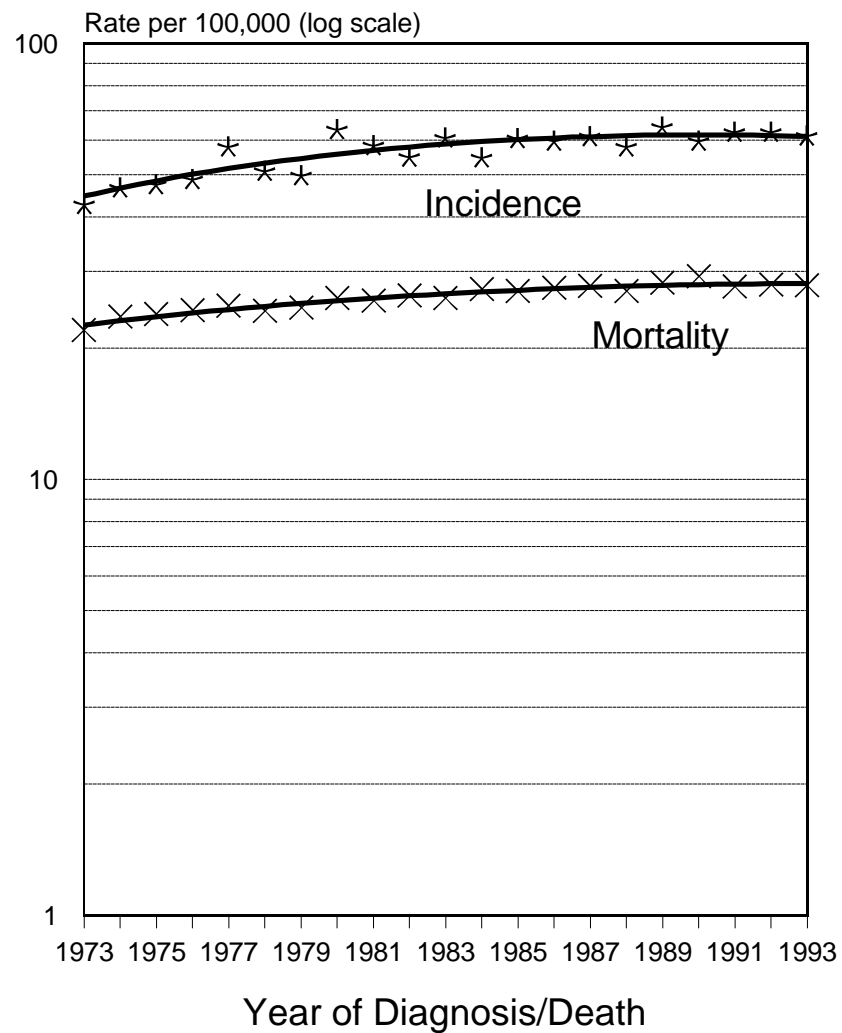
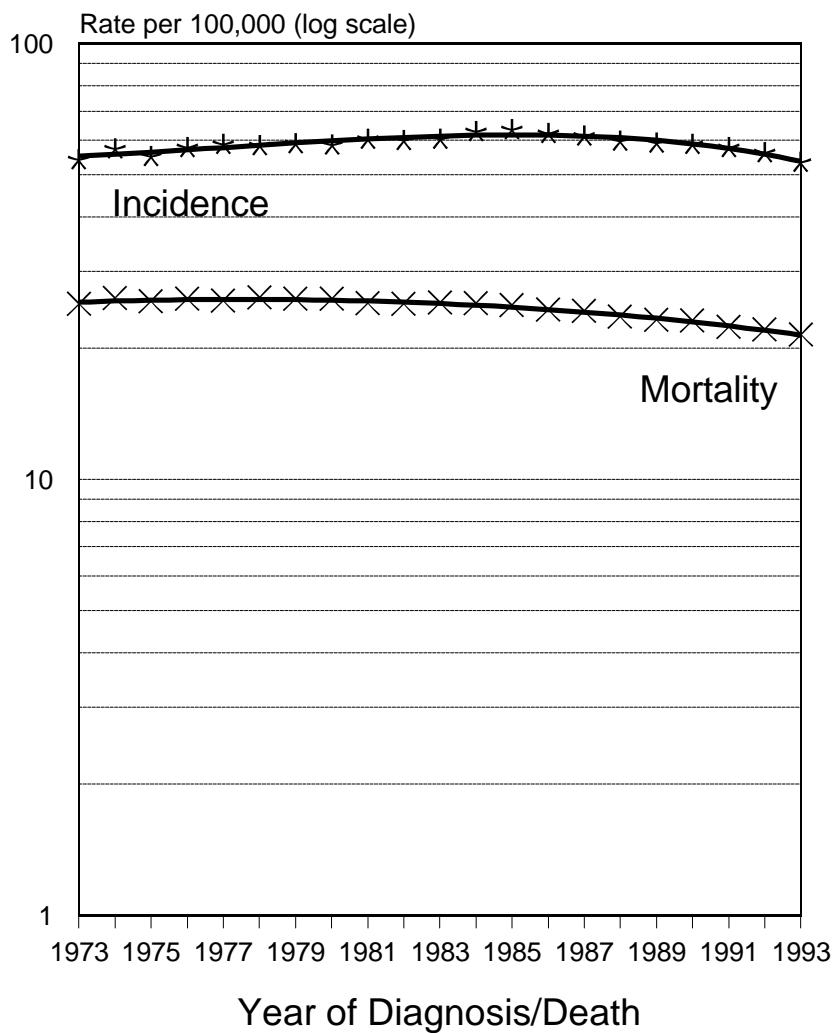


Figure VI-1

SEER Incidence and U.S. Mortality Colon & Rectum, Female By Race

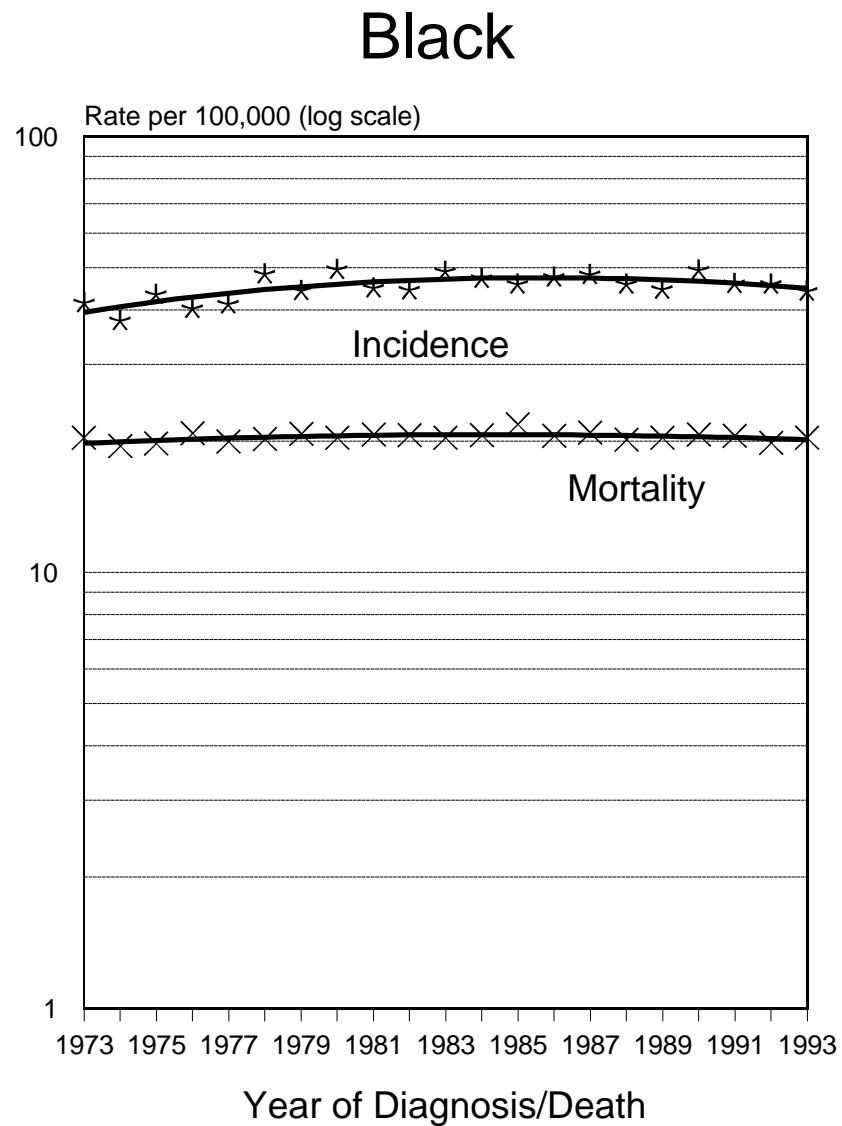
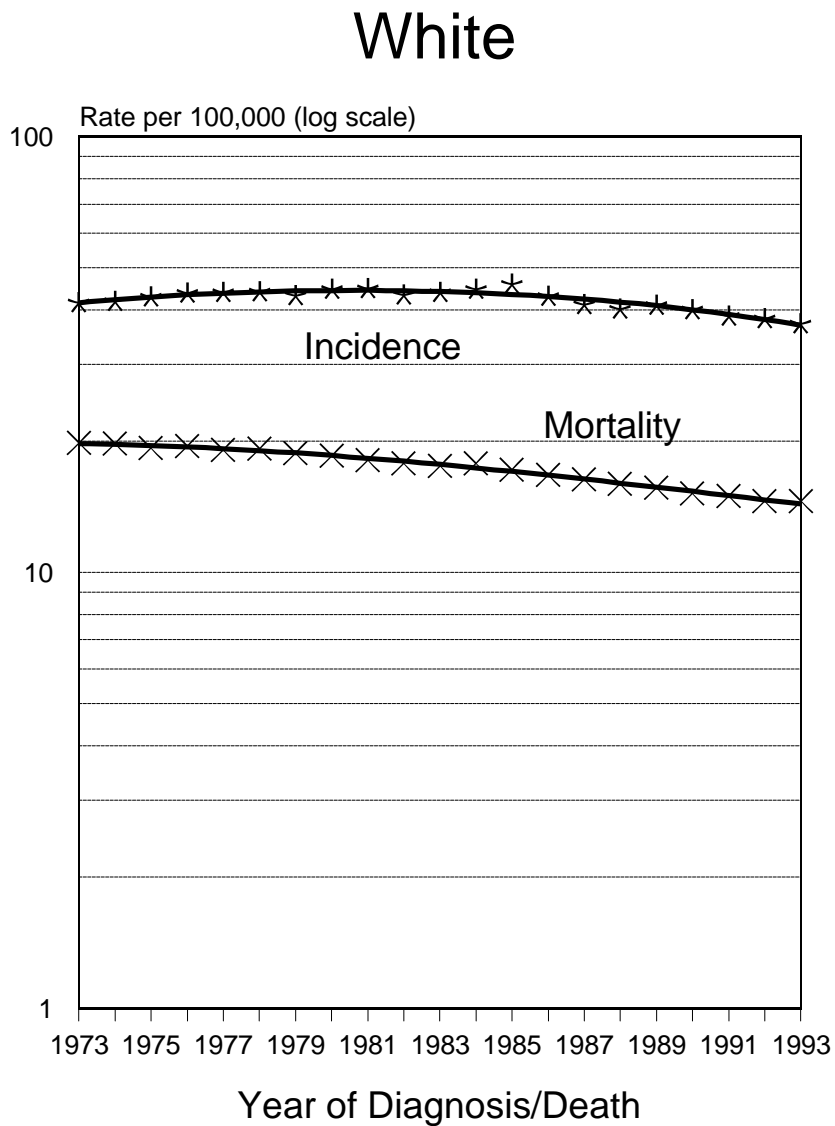


Figure VI-2