

Table IV-1
FEMALE BREAST CANCER (Invasive)

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINTPOINT REGRESSION PROGRAM, 1975-2001
WITH UP TO THREE JOINTPOINTS BY RACE AND AGE

		<u>Jointpoint Segment 1</u>		<u>Jointpoint Segment 2</u>		<u>Jointpoint Segment 3</u>		<u>Jointpoint Segment 4</u>	
		<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>
<u>SEER Cancer Incidence^a</u>									
All Races	All Ages	1975-1980	-0.4	1980-1987	3.7 ^c	1987-2001	0.4 ^c		
All Races	Under 50	1975-1980	-1.4	1980-1986	2.9 ^c	1986-2001	-0.3		
All Races	50 and Over	1975-1982	0.8	1982-1986	5.9 ^c	1986-2001	0.6 ^c		
White	All Ages	1975-1980	-0.3	1980-1987	3.8 ^c	1987-2001	0.4 ^c		
White	Under 50	1975-1980	-1.2	1980-1986	2.8 ^c	1986-2001	-0.3		
White	50 and Over	1975-1980	-0.1	1980-1987	4.3 ^c	1987-2001	0.6 ^c		
Black	All Ages	1975-1978	-2.8	1978-1986	3.8 ^c	1986-1999	0.8 ^c	1999-2001	-6.3
Black	Under 50	1975-1991	1.6 ^c	1991-2001	-1.3 ^c				
Black	50 and Over	1975-1996	2.3 ^c	1996-2001	-2.4				
<u>SEER Delay-Adjusted Incidence^a</u>									
All Races	All Ages	1975-1980	-0.4	1980-1987	3.7 ^c	1987-2001	0.5 ^c		
White	All Ages	1975-1980	-0.3	1980-1987	3.7 ^c	1987-2001	0.6 ^c		
Black	All Ages	1975-1978	-2.8	1978-1986	3.8 ^c	1986-1999	1.0 ^c	1999-2001	-5.0
<u>U.S. Cancer Mortality^b</u>									
All Races	All Ages	1975-1990	0.4 ^c	1990-2001	-2.3 ^c				
All Races	Under 50	1975-1990	-0.3 ^c	1990-2001	-3.4 ^c				
All Races	50 and Over	1975-1990	0.6 ^c	1990-2001	-2.1 ^c				
White	All Ages	1975-1990	0.3 ^c	1990-2001	-2.5 ^c				
White	Under 50	1975-1991	-0.7 ^c	1991-2001	-4.1 ^c				
White	50 and Over	1975-1990	0.5 ^c	1990-2001	-2.2 ^c				
Black	All Ages	1975-1991	1.6 ^c	1991-2001	-1.1 ^c				
Black	Under 50	1975-1987	1.8 ^c	1987-1996	-1.1 ^c	1996-2001	-3.4 ^c		
Black	50 and Over	1975-1993	1.6 ^c	1993-2001	-1.2 ^c				

Jointpoint Regression Program Version 2.7, September 2003, National Cancer Institute. (<http://srab.cancer.gov/jointpoint/>).

^a The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups. Trends are from the SEER 9 areas.

^b Trends are from the NCHS public use data file for the total US.

^c The APC is significantly different from zero (p<.05).

Table IV-2
 FEMALE BREAST CANCER (*In Situ*)

TRENDS IN SEER INCIDENCE^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2001
 WITH UP TO THREE JOINPOINTS BY RACE AND AGE

		<u>Joinpoint Segment 1</u>		<u>Joinpoint Segment 2</u>		<u>Joinpoint Segment 3</u>		<u>Joinpoint Segment 4</u>	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence^a</u>									
All Races	All Ages	1975-1981	-2.7	1981-1987	23.9 ^b	1987-2001	5.6 ^b		
All Races	Under 50	1975-1982	-2.4	1982-1986	28.5 ^b	1986-2001	3.6 ^b		
All Races	50 and Over	1975-1981	-2.0	1981-1987	26.3 ^b	1987-2001	6.5 ^b		
White	All Ages	1975-1982	-0.8	1982-1986	33.5 ^b	1986-2001	5.6 ^b		
White	Under 50	1975-1982	-3.9	1982-1985	41.2	1985-2001	3.8 ^b		
White	50 and Over	1975-1981	-1.4	1981-1987	26.4 ^b	1987-2001	6.3 ^b		
Black	All Ages	1975-1981	2.7	1981-1988	19.3 ^b	1988-2001	6.7 ^b		
Black	Under 50	1975-2001	6.5 ^b						
Black	50 and Over	1975-1980	-2.1	1980-1988	21.1 ^b	1988-2001	7.6 ^b		
<u>SEER Delay-Adjusted Incidence^a</u>									
All Races	All Ages	1975-1981	-2.7	1981-1987	23.8 ^b	1987-2001	5.6 ^b		
White	All Ages	1975-1982	-0.8	1982-1986	33.4 ^b	1986-2001	5.7 ^b		
Black	All Ages	1975-1981	2.7	1981-1988	19.2 ^b	1988-2001	6.9 ^b		

Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).

^a The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups.
 Trends are from the SEER 9 areas.

^b Trends are from the NCHS public use data file for the total US.

Table IV-3
BREAST CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, 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:									
1975	58.0	0.9	105.0	59.4	0.9	107.3	52.0	-	93.4
1976	56.4	1.1	101.9	58.1	1.1	104.8	48.0	-	85.2
1977	56.0	1.0	100.8	57.5	0.9	103.4	49.5	-	86.8
1978	55.8	0.9	100.5	57.5	0.9	103.5	48.3	-	86.1
1979	56.8	1.0	102.1	58.3	0.9	104.8	49.9	-	86.9
1980	56.8	0.9	102.1	58.4	1.0	104.9	50.6	-	89.4
1981	59.3	1.0	106.3	61.2	0.9	109.8	54.4	-	94.2
1982	59.2	1.0	106.4	61.0	0.9	109.9	53.9	-	93.5
1983	61.9	1.0	111.1	63.7	1.1	114.4	58.8	-	103.3
1984	64.4	0.9	115.8	66.5	0.9	119.7	58.1	-	101.8
1985	69.0	1.0	124.0	70.9	1.0	127.7	64.0	-	111.5
1986	70.4	0.9	126.7	72.2	1.0	130.3	66.1	-	114.7
1987	74.7	1.0	134.4	77.8	1.0	140.3	62.8	-	109.0
1988	73.0	1.2	131.2	75.6	1.2	136.3	68.8	-	118.4
1989	70.7	1.1	127.1	73.3	1.0	132.2	60.7	-	105.2
1990	73.0	1.1	131.6	75.3	1.1	136.1	68.2	-	118.0
1991	73.9	1.1	133.5	76.5	1.2	138.5	67.2	-	117.1
1992	72.9	1.0	131.9	74.6	1.0	135.6	71.0	-	123.0
1993	71.3	1.1	129.1	73.2	1.0	133.1	68.5	-	118.8
1994	71.9	1.2	130.6	74.1	1.1	135.4	70.2	-	121.8
1995	72.6	1.0	132.2	74.9	0.9	137.3	71.3	-	123.1
1996	73.1	1.3	133.3	75.1	1.3	137.6	71.0	-	123.1
1997	75.2	1.2	137.3	77.4	1.1	142.2	71.5	-	123.7
1998	76.9	1.1	140.6	79.3	1.2	146.0	69.6	-	121.3
1999	76.5	1.1	140.1	78.9	1.1	145.7	71.3	-	123.2
2000	73.6	1.2	135.0	76.5	1.2	141.6	67.1	-	115.5
2001	73.4	1.3	134.8	75.9	1.3	140.8	63.6	-	110.1
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
All ages	75.1	1.2	137.5	77.6	1.2	143.2	68.5	1.9	118.6
Under 65	46.4	0.5	90.4	47.4	0.5	93.4	44.4	0.8	81.5
65 and over	273.5	5.6	463.0	286.6	5.7	487.2	235.1	9.7	375.0
All ages(IARC world std) ^b	52.8	0.8	99.0	54.5	0.8	103.1	48.7	1.2	86.1
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.7	-	1.4	0.6	-	1.3	-	-	-
25-29	3.9	-	7.8	3.7	-	7.7	6.0	-	11.4
30-34	13.4	-	26.9	12.6	-	25.8	18.1	-	34.2
35-39	30.8	-	61.6	30.6	-	62.0	33.8	-	63.5
40-44	60.6	-	120.1	60.9	-	122.3	62.4	-	116.7
45-49	100.0	0.8	196.3	101.6	0.8	202.3	98.0	-	181.1
50-54	132.4	1.5	258.3	136.2	1.5	268.7	123.1	-	226.5
55-59	172.2	2.4	334.1	177.9	2.3	349.3	150.6	-	273.3
60-64	204.9	3.7	388.9	212.3	3.8	407.9	183.1	-	326.1
65-69	237.8	4.1	437.6	250.0	4.2	465.6	205.3	-	354.9
70-74	271.2	5.0	480.0	284.6	5.3	507.7	227.4	-	376.5
75-79	295.5	5.7	499.2	309.6	5.3	523.2	259.8	-	414.5
80-84	299.9	8.5	475.8	312.2	8.8	494.1	250.0	-	376.8
85+	288.3	7.1	406.5	302.2	6.6	422.5	256.7	-	345.7

^a SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

^b SEER 9 areas. Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table IV-4
BREAST CANCER (Invasive)

U.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, 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:									
1975	17.8	0.4	31.4	18.0	0.4	31.8	16.8	0.4	29.5
1976	18.1	0.4	31.8	18.2	0.4	32.2	17.6	0.6	30.5
1977	18.5	0.4	32.5	18.6	0.4	32.7	18.9	0.5	32.8
1978	18.0	0.4	31.7	18.1	0.3	31.9	18.6	0.6	32.1
1979	17.7	0.3	31.2	17.9	0.3	31.5	17.9	0.5	30.8
1980	18.0	0.3	31.7	18.1	0.3	31.9	18.4	0.4	31.7
1981	18.2	0.3	31.9	18.3	0.3	32.1	19.0	0.5	32.6
1982	18.4	0.3	32.2	18.4	0.3	32.3	19.7	0.6	33.7
1983	18.3	0.3	32.1	18.4	0.3	32.2	19.6	0.5	33.5
1984	18.8	0.3	32.9	18.8	0.3	32.9	21.0	0.5	35.9
1985	18.8	0.3	33.0	18.9	0.3	33.1	20.3	0.4	34.9
1986	18.8	0.3	32.9	18.8	0.3	32.9	20.7	0.4	35.4
1987	18.7	0.3	32.7	18.6	0.3	32.6	21.5	0.5	36.7
1988	19.0	0.3	33.2	18.9	0.3	33.1	22.3	0.9	37.8
1989	19.0	0.3	33.2	18.9	0.3	33.2	21.6	0.5	36.6
1990	18.9	0.3	33.1	18.8	0.3	33.0	22.5	0.5	38.0
1991	18.7	0.3	32.7	18.5	0.3	32.4	22.6	0.4	38.3
1992	18.1	0.3	31.6	17.9	0.3	31.4	21.9	0.4	37.1
1993	18.0	0.4	31.4	17.7	0.3	31.1	22.6	0.7	38.0
1994	17.7	0.4	30.9	17.4	0.3	30.6	22.4	0.6	37.7
1995	17.4	0.4	30.6	17.1	0.3	30.1	22.7	0.8	38.2
1996	16.8	0.3	29.5	16.5	0.3	29.0	22.1	0.7	37.1
1997	16.1	0.3	28.2	15.7	0.3	27.6	22.3	0.6	37.4
1998	15.7	0.3	27.5	15.3	0.3	27.0	21.1	0.6	35.5
1999	15.2	0.3	26.6	14.8	0.3	26.0	20.9	0.7	35.2
2000	15.2	0.4	26.6	14.8	0.4	26.2	20.5	0.6	34.3
2001	14.7	0.3	25.9	14.3	0.3	25.4	20.5	0.6	34.5
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DEATH:									
All ages	15.3	0.3	27.0	15.0	0.3	26.4	21.0	0.6	35.4
Under 65	7.3	0.1	14.0	6.8	0.1	13.3	11.7	0.2	21.3
65 and over	71.3	1.9	116.3	71.3	1.9	116.8	85.6	3.4	132.6
All ages(IARC world std) ^b	9.7	0.2	17.7	9.4	0.2	17.2	13.9	0.4	24.2
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DEATH:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.0	-	0.1	-	-	-	-	-	-
25-29	0.5	-	0.9	0.4	-	0.8	1.0	-	1.9
30-34	1.9	-	3.7	1.6	-	3.3	3.8	-	7.2
35-39	4.5	0.1	8.9	4.0	-	8.1	8.5	-	15.9
40-44	8.5	0.1	16.8	7.7	0.1	15.4	15.0	-	28.0
45-49	14.1	0.1	27.5	12.9	0.1	25.5	24.3	-	45.0
50-54	21.5	0.3	41.7	20.4	0.3	40.0	34.2	0.7	62.6
55-59	28.5	0.6	54.6	27.2	0.5	52.6	43.7	1.0	78.5
60-64	35.4	0.7	66.7	34.5	0.7	65.7	49.7	1.5	87.4
65-69	43.8	1.1	80.3	43.3	1.0	80.2	56.8	1.6	97.7
70-74	56.6	1.4	99.7	56.3	1.3	100.1	72.2	2.9	118.1
75-79	70.4	2.1	117.9	70.6	2.0	118.6	84.6	3.2	133.6
80-84	91.2	2.5	143.1	91.5	2.4	144.1	106.6	4.5	157.3
85+	140.6	3.9	196.1	141.5	3.7	197.1	154.2	7.2	209.6

^a NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

^b NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table IV-5
FEMALE BREAST CANCER (Invasive)SEER INCIDENCE^a AND U.S. DEATH^b RATES, AGE-ADJUSTED RATES, BY RACE AND AGE

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
<u>SEER INCIDENCE RATES</u>									
YEAR OF DIAGNOSIS:									
1975	105.0	40.6	273.7	107.3	40.7	281.6	93.4	42.4	226.9
1976	101.9	40.0	264.0	104.8	40.9	272.3	85.2	38.0	208.9
1977	100.8	39.0	262.4	103.4	39.4	271.0	86.8	37.3	216.2
1978	100.5	38.7	262.3	103.5	39.2	272.0	86.1	40.0	206.7
1979	102.1	38.0	269.9	104.8	38.6	278.0	86.9	37.7	215.7
1980	102.1	37.7	270.6	104.9	38.2	279.6	89.4	37.8	224.7
1981	106.3	39.2	282.0	109.8	40.1	292.4	94.2	38.9	239.3
1982	106.4	40.5	279.1	109.9	41.2	289.9	93.5	37.9	238.9
1983	111.1	40.2	296.7	114.4	40.9	307.0	103.3	41.2	265.9
1984	115.8	42.3	308.2	119.7	43.1	320.4	101.8	44.5	252.1
1985	124.0	44.2	333.1	127.7	44.4	345.9	111.5	45.5	284.2
1986	126.7	44.4	342.3	130.3	45.2	353.2	114.7	45.1	296.7
1987	134.4	45.4	367.3	140.3	46.6	385.7	109.0	42.8	282.2
1988	131.2	44.0	359.6	136.3	45.0	375.2	118.4	43.1	315.6
1989	127.1	43.4	346.4	132.2	44.4	362.1	105.2	42.1	270.3
1990	131.6	45.5	356.8	136.1	45.5	373.6	118.0	48.8	299.1
1991	133.5	47.0	360.0	138.5	47.0	378.3	117.1	50.8	290.7
1992	131.9	43.4	363.4	135.6	43.7	376.1	123.0	46.5	323.2
1993	129.1	42.7	355.3	133.1	43.2	368.7	118.8	44.9	312.4
1994	130.6	42.2	362.0	135.4	42.6	378.4	121.8	47.3	316.7
1995	132.2	43.0	365.9	137.3	43.6	382.5	123.1	45.3	327.0
1996	133.3	43.4	368.7	137.6	43.8	383.3	123.1	43.8	330.6
1997	137.3	43.3	383.4	142.2	43.9	399.4	123.7	44.0	332.5
1998	140.6	45.1	390.6	146.0	45.4	409.4	121.3	45.8	319.0
1999	140.1	43.3	393.5	145.7	44.7	410.2	123.2	42.3	335.2
2000	135.0	43.0	375.9	141.6	43.5	398.4	115.5	43.9	302.9
2001	134.8	43.0	375.0	140.8	43.8	394.6	110.1	39.1	296.2
1997-2001	137.5	43.5	383.6	143.2	44.3	402.3	118.6	42.9	316.6
<u>U.S. DEATH RATES</u>									
YEAR OF DEATH:									
1975	31.4	9.1	89.9	31.8	9.0	91.4	29.5	10.7	78.8
1976	31.8	8.7	92.2	32.2	8.6	93.8	30.5	10.2	83.5
1977	32.5	8.9	94.3	32.7	8.7	95.3	32.8	10.5	91.1
1978	31.7	8.7	92.1	31.9	8.5	93.3	32.1	11.4	86.5
1979	31.2	8.6	90.5	31.5	8.3	92.1	30.8	11.4	81.8
1980	31.7	8.6	92.2	31.9	8.4	93.6	31.7	10.8	86.3
1981	31.9	8.5	93.3	32.1	8.2	94.8	32.6	11.5	87.7
1982	32.2	8.4	94.4	32.3	8.2	95.5	33.7	11.2	92.8
1983	32.1	8.2	94.7	32.2	7.9	95.8	33.5	11.2	92.1
1984	32.9	8.6	96.6	32.9	8.2	97.5	35.9	12.5	97.2
1985	33.0	8.6	96.9	33.1	8.3	98.1	34.9	12.0	94.6
1986	32.9	8.6	96.3	32.9	8.3	97.5	35.4	12.9	94.6
1987	32.7	8.4	96.1	32.6	8.0	96.9	36.7	12.9	99.0
1988	33.2	8.4	98.2	33.1	8.0	98.8	37.8	12.7	103.4
1989	33.2	8.4	98.2	33.2	8.1	99.2	36.6	12.4	100.0
1990	33.1	8.3	98.1	33.0	8.0	98.5	38.0	12.0	106.1
1991	32.7	8.2	96.9	32.4	7.7	97.2	38.3	12.3	106.3
1992	31.6	7.8	94.2	31.4	7.4	94.5	37.1	12.0	102.7
1993	31.4	7.4	94.2	31.1	7.0	94.2	38.0	11.7	107.1
1994	30.9	7.4	92.6	30.6	6.9	92.5	37.7	11.7	105.9
1995	30.6	7.3	91.5	30.1	6.8	91.1	38.2	11.7	107.5
1996	29.5	6.9	88.5	29.0	6.4	88.3	37.1	11.7	103.6
1997	28.2	6.7	84.5	27.6	6.2	83.6	37.4	11.0	106.6
1998	27.5	6.3	83.1	27.0	5.8	82.5	35.5	10.6	100.7
1999	26.6	5.7	81.2	26.0	5.2	80.4	35.2	10.3	100.5
2000	26.6	5.9	80.9	26.2	5.4	80.6	34.3	9.9	98.2
2001	25.9	5.8	78.5	25.4	5.3	77.8	34.5	9.8	98.9
1997-2001	27.0	6.1	81.6	26.4	5.6	80.9	35.4	10.3	100.9

^a SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.
^b NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the IARC world standard population.
 - Statistic not shown. Rate based on less than 25 cases for the time interval.

Table IV-6
FEMALE BREAST CANCER (In Situ)SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
<u>SEER INCIDENCE RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1975	5.8	3.8	11.2	5.9	3.8	11.3	3.9	-	-
1976	5.3	2.7	12.0	5.4	2.9	11.8	-	-	-
1977	4.3	2.6	8.7	4.3	2.6	8.9	-	-	-
1978	4.4	2.3	9.8	4.5	2.5	10.0	-	-	-
1979	4.6	2.8	9.3	4.7	2.9	9.4	4.8	-	-
1980	4.9	3.0	9.7	5.0	3.1	10.2	3.7	-	-
1981	5.0	2.6	11.0	5.0	2.5	11.3	4.1	-	-
1982	5.3	2.7	12.0	5.3	2.7	12.2	5.7	-	13.3
1983	6.1	3.0	14.1	6.2	3.0	14.6	5.4	-	13.2
1984	8.6	4.8	18.7	9.2	5.2	19.6	6.3	-	16.8
1985	11.5	5.9	26.2	12.1	6.3	27.3	8.1	-	20.6
1986	13.6	6.8	31.7	14.3	7.2	32.9	9.2	5.1	20.1
1987	17.4	7.8	42.4	18.2	8.2	44.2	12.1	5.3	29.7
1988	17.6	8.2	42.2	18.1	8.5	43.1	16.2	7.4	39.3
1989	16.5	7.0	41.4	17.1	7.3	42.7	14.5	5.5	38.1
1990	19.1	8.4	47.2	19.9	8.8	49.1	15.1	5.5	40.0
1991	19.8	8.8	48.6	20.4	8.9	50.7	15.3	7.3	36.3
1992	21.5	9.0	54.1	22.2	9.2	56.1	19.0	6.8	50.9
1993	20.8	8.4	53.2	21.4	8.8	54.3	16.6	6.1	44.2
1994	22.3	8.8	57.8	22.9	9.1	59.0	20.0	7.2	53.7
1995	24.6	9.6	64.1	25.0	9.9	64.5	22.5	6.3	64.9
1996	25.4	9.8	66.1	25.9	9.8	68.0	22.3	7.6	60.7
1997	28.4	11.1	73.7	29.0	11.2	75.5	27.8	11.3	71.1
1998	32.7	11.9	86.9	33.7	12.3	89.7	29.5	10.7	78.7
1999	32.7	11.9	86.9	33.0	12.1	87.6	29.4	10.3	79.5
2000	32.6	11.7	87.4	33.7	12.5	89.3	29.4	8.0	85.4
2001	32.8	11.3	89.2	33.2	11.6	89.7	30.5	9.0	86.9
1997-2001	31.9	11.6	84.9	32.5	11.9	86.4	29.4	9.8	80.6

	All Races, Females	White Females	Black Females
<u>AGE-ADJUSTED RATES, 1997-2001</u>			
<u>AGE AT DIAGNOSIS:</u>			
All ages	31.9	32.5	29.4
Under 65	24.1	24.8	21.0
65 and over	85.1	86.2	87.4
All ages(IARC world std) ^b	24.1	24.6	21.9

	All Races, Females	White Females	Black Females
<u>AGE-SPECIFIC RATES, 1997-2001</u>			
<u>AGE AT DIAGNOSIS:</u>			
<1	-	-	-
1-4	-	-	-
5-9	-	-	-
10-14	-	-	-
15-19	-	-	-
20-24	-	-	-
25-29	0.6	-	-
30-34	3.1	3.0	3.8
35-39	11.3	11.5	9.4
40-44	35.9	37.5	30.4
45-49	59.0	60.7	48.0
50-54	77.5	79.4	64.5
55-59	88.5	91.5	78.5
60-64	91.9	92.1	87.2
65-69	97.8	100.9	94.0
70-74	97.5	98.6	99.6
75-79	93.7	94.0	104.2
80-84	70.3	70.0	72.0
85+	33.8	33.6	36.1

^a SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

^b SEER 9 areas. Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table IV-7
FEMALE BREAST CANCER (Invasive)

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

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-1963 ^a	-	-	-	63	-	-	46	-	-
1970-1973 ^a	-	-	-	68	-	-	51	-	-
1974-1976 ^b	74.7	76.4	74.1	75.3	77.4	74.6	63.2	64.2	62.6
1977-1979 ^b	74.7	75.8	74.4	75.5	76.8	75.1	63.1	65.3	61.8
1980-1982 ^b	76.3	77.1	76.1	77.1	77.9	76.9	65.8	68.7	64.1
1983-1985 ^b	78.1	77.4	78.4	79.3	79.0	79.3	63.6	63.5	63.6
1986-1988 ^b	82.8	80.1	83.8	83.9	81.5	84.7	69.2	67.4	70.1
1989-1991 ^b	84.9	82.7	85.8	86.2	84.6	86.8	71.2	69.3	72.5
1992-1994 ^b	86.2	83.9	87.0	87.5	85.9	88.1	72.5	70.0	74.0
1995-2000 ^b	87.7 ^c	85.5 ^c	88.5 ^c	88.9 ^c	87.3 ^c	89.5 ^c	75.2 ^c	72.9 ^c	76.8 ^c
1995-2000 ^b									
ALL STAGES	87.7	85.5	88.5	88.9	87.3	89.5	75.2	72.9	76.8
LOCALIZED	97.5	94.4	98.6	98.1	95.1	99.0	91.1	88.5	92.6
REGIONAL	80.4	80.7	80.3	82.0	83.1	81.6	67.8	66.3	69.1
DISTANT	25.5	32.5	23.0	27.0	36.2	24.1	14.7	17.8	12.9
UNSTAGED	54.9	65.4	51.6	55.7	68.3	52.1	49.6	54.1 ^d	46.2 ^d
<i>IN SITU</i> ^e	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	100.0
<u>STAGE DISTRIBUTION (%) 1995-2000^b</u>									
ALL STAGES									
Number of cases	91,516	22,676	68,840	77,492	17,924	59,568	7,754	2,759	4,995
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	63	56	66	64	57	66	53	49	56
REGIONAL	29	37	26	28	36	26	35	40	32
DISTANT	6	5	6	5	5	6	9	8	9
UNSTAGED	2	2	2	2	2	2	3	3	4
<u>5-YR RELATIVE SURVIVAL RATES, 1995-2000^b</u>									
AGE AT DIAGNOSIS:									
<45	84.0	-	-	86.1	-	-	70.4	-	-
45-54	88.0	-	-	89.5	-	-	76.4	-	-
55-64	88.8	-	-	90.1	-	-	78.3	-	-
65-74	89.7	-	-	90.3	-	-	79.7	-	-
75+	86.9	-	-	87.7	-	-	71.2	-	-
Under 65	87.3	-	-	88.9	-	-	75.0	-	-
65 and over	88.6	-	-	89.3	-	-	76.4	-	-

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 9 areas. 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 into 2001.

c

The difference in rates between 1974-1976 and 1995-2000 is statistically significant (p<.05).

d

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

e

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

f

In situ cases are not included in the All Stages group.

-

Statistic could not be calculated.

Table IV-8
FEMALE BREAST CANCER (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Relative Survival Rates (SEER ^b)																		
1-year	94.7	95.5	95.9	96.3	96.8	96.8	97.0	97.0	97.3	97.4	97.2	97.6	97.3	97.1	97.6	97.7	97.6	97.6
2-year	88.9	90.5	91.3	91.7	93.2	93.4	93.4	93.4	93.9	94.4	94.1	94.3	94.1	93.9	94.5	95.1	95.2	
3-year	83.4	85.1	86.4	87.1	89.2	90.0	90.0	89.8	90.2	91.1	91.0	91.1	91.4	91.1	92.2	93.1		
4-year	78.7	80.7	82.3	83.5	86.0	87.2	87.2	86.9	87.7	88.2	88.2	88.7	88.9	89.1	89.9			
5-year	74.9	76.9	78.8	80.5	83.3	84.6	84.7	84.7	85.3	85.9	85.9	86.7	86.8	86.8				
6-year	71.7	73.9	76.3	78.2	80.6	82.4	82.4	82.6	83.4	84.1	83.9	85.0	85.3					
7-year	69.0	71.1	74.2	75.8	78.4	80.5	80.6	80.7	81.7	82.4	82.2	83.4						
8-year	66.7	68.8	72.3	74.3	76.9	79.0	79.2	79.3	80.0	81.5	80.5							
9-year	64.6	66.8	70.3	72.6	75.1	77.2	77.8	77.9	78.6	80.3								
10-year	62.8	64.8	68.6	71.0	73.7	76.2	76.7	76.7	77.3									
11-year	61.2	63.0	67.2	69.8	72.0	74.9	75.6	75.5										
12-year	59.6	61.8	66.0	68.5	70.7	73.7	73.9											
13-year	58.5	60.7	65.1	67.4	69.4	72.5												
14-year	57.5	59.4	64.3	66.4	68.1													
15-year	56.4	58.5	63.3	64.9														
16-year	55.5	57.3	61.9															
17-year	54.5	56.4																
18-year	53.7																	
19-year	52.9																	
20-year	52.2																	

^a Survival rates are relative rates expressed as percents.
^b Rates are from the SEER 9 areas.

Table IV-9
FEMALE BREAST CANCER (Under 50) (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Relative Survival Rates (SEER ^b)																		
1-year	96.8	97.6	97.6	97.9	98.1	98.5	98.2	97.5	98.5	98.4	98.0	98.4	98.0	97.7	98.1	98.5	98.6	98.5
2-year	90.9	91.5	91.8	92.2	92.6	93.8	93.1	93.1	93.9	94.6	94.2	93.5	93.7	93.8	94.7	95.1	94.9	
3-year	84.6	85.7	85.8	86.1	87.1	89.3	88.8	88.4	90.0	90.7	90.1	89.2	89.9	90.7	91.6	92.1		
4-year	80.0	81.0	81.2	82.0	83.0	85.6	85.0	84.9	86.7	86.3	87.0	86.0	86.5	88.1	88.6			
5-year	76.1	77.1	77.9	78.3	79.6	82.4	82.2	82.2	83.7	83.6	84.5	83.6	83.8	85.3				
6-year	73.2	74.1	75.6	75.7	77.2	80.3	79.8	79.9	81.5	81.5	82.7	81.5	81.9					
7-year	70.7	71.5	73.5	73.0	74.8	78.2	78.0	78.3	79.3	80.0	80.9	79.7						
8-year	68.7	69.3	71.7	71.3	73.1	76.4	76.6	76.3	77.7	78.4	79.1							
9-year	66.8	67.5	69.7	70.1	71.2	75.0	74.9	75.2	76.8	77.2								
10-year	65.3	66.0	68.6	69.0	69.7	73.6	74.1	74.0	75.7									
11-year	63.9	64.7	67.7	68.0	68.2	72.6	73.0	73.0										
12-year	62.5	63.6	66.5	66.7	66.7	72.0	71.7											
13-year	61.4	62.5	65.5	65.7	65.8	70.9												
14-year	60.6	61.4	64.8	64.8	64.9													
15-year	59.8	60.6	63.8	64.0														
16-year	59.1	59.8	62.8															
17-year	58.5	59.1																
18-year	57.9																	
19-year	57.2																	
20-year	56.5																	

^a Survival rates are relative rates expressed as percents.
^b Rates are from the SEER 9 areas.

Table IV-10
 FEMALE BREAST CANCER (50 and Over) (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Relative Survival Rates (SEER ^b)																		
1-year	94.1	94.9	95.4	95.8	96.5	96.3	96.7	96.8	96.9	97.1	96.9	97.3	97.0	96.9	97.4	97.4	97.3	97.4
2-year	88.3	90.2	91.1	91.5	93.4	93.2	93.4	93.5	93.9	94.3	94.1	94.6	94.3	93.9	94.5	95.1	95.3	
3-year	82.9	84.9	86.5	87.4	89.8	90.3	90.5	90.3	90.3	91.3	91.3	91.8	92.0	91.3	92.4	93.4		
4-year	78.2	80.6	82.7	84.0	87.0	87.7	88.0	87.7	88.0	89.0	88.7	89.7	89.8	89.6	90.4			
5-year	74.5	76.9	79.1	81.2	84.5	85.4	85.7	85.7	86.0	86.8	86.5	87.8	87.9	87.4				
6-year	71.2	73.8	76.6	79.1	81.8	83.2	83.4	83.7	84.3	85.1	84.5	86.4	86.7					
7-year	68.3	70.9	74.5	76.9	79.7	81.4	81.7	81.7	82.7	83.4	82.9	85.0						
8-year	66.0	68.6	72.5	75.5	78.4	80.0	80.3	80.6	81.1	82.9	81.3							
9-year	63.7	66.5	70.5	73.7	76.6	78.2	79.2	79.2	79.6	81.8								
10-year	61.9	64.4	68.7	71.9	75.4	77.3	78.0	78.1	78.3									
11-year	60.1	62.4	67.0	70.7	73.8	76.1	77.0	77.0										
12-year	58.5	61.1	65.9	69.4	72.7	74.8	75.4											
13-year	57.2	60.0	65.2	68.4	71.3	73.7												
14-year	56.1	58.6	64.3	67.5	70.0													
15-year	54.8	57.7	63.3	65.8														
16-year	53.7	56.3	61.9															
17-year	52.5	55.3																
18-year	51.6																	
19-year	50.6																	
20-year	49.9																	

^a Survival rates are relative rates expressed as percents.
^b Rates are from the SEER 9 areas.

Table IV-11
BREAST 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 (12 SEER Areas) With Cancer and
 Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

1999-2001

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	0.00	0.12	0.00	0.00	0.05	13.39
10	0.00	0.00	0.00	0.12	0.00	0.05	0.49	13.54
20	0.00	0.00	0.01	0.12	0.05	0.49	1.95	13.57
30	0.00	0.01	0.02	0.12	0.44	1.91	4.57	13.59
40	0.01	0.02	0.06	0.12	1.49	4.18	7.64	13.31
50	0.02	0.05	0.09	0.12	2.79	6.36	9.77	12.21
60	0.04	0.08	0.10	0.11	3.83	7.49	9.63	10.11

Lifetime Risk of Being Diagnosed = 0.12%
 Lifetime Risk of Dying = 0.03%

Lifetime Risk of Being Diagnosed = 13.39%
 Lifetime Risk of Dying = 2.98%

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	0.12	0.00	0.00	0.05	14.21
10	0.00	0.00	0.00	0.12	0.00	0.05	0.49	14.35
20	0.00	0.00	0.01	0.12	0.05	0.49	1.99	14.38
30	0.00	0.01	0.02	0.12	0.44	1.95	4.75	14.39
40	0.01	0.02	0.06	0.12	1.53	4.36	8.09	14.11
50	0.02	0.05	0.09	0.12	2.93	6.78	10.44	12.98
60	0.04	0.08	0.11	0.11	4.12	8.04	10.28	10.77

Lifetime Risk of Being Diagnosed = 0.12%
 Lifetime Risk of Dying = 0.03%

Lifetime Risk of Being Diagnosed = 14.21%
 Lifetime Risk of Dying = 2.99%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	0.16	0.00	0.00	0.07	9.99
10	0.00	0.00	0.00	0.17	0.00	0.07	0.53	10.22
20	0.00	0.00	0.01	0.17	0.07	0.53	1.88	10.25
30	0.00	0.01	0.05	0.17	0.46	1.83	4.02	10.27
40	0.01	0.05	0.10	0.17	1.39	3.63	6.25	10.00
50	0.04	0.09	0.14	0.18	2.35	5.12	7.51	9.07
60	0.06	0.11	0.13	0.16	3.07	5.73	7.13	7.46

Lifetime Risk of Being Diagnosed = 0.16%
 Lifetime Risk of Dying = 0.05%

Lifetime Risk of Being Diagnosed = 9.99%
 Lifetime Risk of Dying = 3.25%

Table IV-12
 FEMALE BREAST CANCER (Invasive)

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

By Race/Ethnicity and Sex

Incidence^a

RACE/ETHNICITY	Rate 1997-2001	Trend 1992-2001
	Rate per 100,000 persons	APC (%)
	Females	Females
All Races	135.2	0.6 ^d
White	141.7	0.8 ^d
White Hispanic ^b	92.1	0.5
White Non-Hispanic ^b	149.9	1.0 ^d
Black	119.9	-0.3
Asian/Pacific Islander	96.8	1.7 ^d
Amer Ind/Alaska Nat	54.2	-3.7 ^d
Hispanic ^b	89.6	0.7

Mortality^c

RACE/ETHNICITY	Rate 1997-2001	Trend 1992-2001
	Rate per 100,000 persons	APC (%)
	Females	Females
All Races	27.0	-2.4 ^d
White	26.4	-2.6 ^d
White Hispanic ^b	17.7	-1.8 ^d
White Non-Hispanic ^b	26.7	-2.5 ^d
Black	35.4	-1.2 ^d
Asian/Pacific Islander	12.6	-0.9
Amer Ind/Alaska Nat	13.6	-1.8
Hispanic ^b	17.3	-1.8 ^d

The APC is the Annual Percent Change over the time interval.

- Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.

^a Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).

^b Hispanic and Non-Hispanic are not mutually exclusive from Whites, Blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics do not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Maine, Maryland, Oklahoma, New York, New Hampshire, North Dakota and Vermont.

^c Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

^d The APC is significantly different from zero (p<.05).

Table IV-13
 FEMALE BREAST CANCER (*In Situ*)

AGE-ADJUSTED SEER INCIDENCE

By Race/Ethnicity and Sex

Incidence^a

RACE/ETHNICITY	Rate 1997-2001	Trend 1992-2001
	Rate per 100,000 persons	APC (%)
	<u>Females</u>	<u>Females</u>
All Races	30.0	5.9 ^c
White	31.0	5.8 ^c
White Hispanic ^b	17.0	5.9 ^c
White Non-Hispanic ^b	32.2	5.8 ^c
Black	27.4	6.5 ^c
Asian/Pacific Islander	24.5	7.8 ^c
Amer Ind/Alaska Nat	9.4	-
Hispanic ^b	16.7	6.3 ^c

- The APC is the Annual Percent Change over the time interval. Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.

^a Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).

^b Hispanic and Non-Hispanic are not mutually exclusive from Whites, Blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics do not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Maine, Maryland, Oklahoma, New York, New Hampshire, North Dakota and Vermont.

^c The APC is significantly different from zero (p<.05).

Table IV-14
FEMALE BREAST CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES^a AND SEER DEATH RATES^b
 By Registry, Race and Age

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
<u>SEER INCIDENCE RATES^a, 1997-2001</u>									
REGISTRY									
12 registries	135.2	42.8	377.1	141.7	43.4	399.0	119.9	42.6	322.5
11 registries	135.2	42.8	377.2	141.7	43.4	399.0	119.9	42.6	322.5
9 registries	137.5	43.5	383.6	143.2	44.3	402.3	118.6	42.9	316.6
San Francisco-Oakland	140.2	45.6	388.0	156.0	47.8	439.4	117.8	44.2	310.6
Connecticut	144.0	47.0	397.9	146.5	47.8	404.9	113.2	38.9	307.6
Metropolitan Detroit	137.1	44.2	380.5	142.1	45.0	396.2	124.1	43.4	335.5
Hawaii	134.2	45.2	367.2	153.9	50.1	425.7	-	-	-
Iowa	131.5	40.3	370.4	131.6	40.1	371.2	127.2	47.5	335.7
New Mexico	116.2	38.6	319.6	121.8	40.8	334.0	86.4	-	249.4
Seattle-Puget Sound	151.9	44.5	433.1	158.0	45.4	452.9	114.7	42.3	304.2
Utah	119.4	34.3	342.2	121.4	34.9	347.9	-	-	-
Metropolitan Atlanta	136.6	44.9	377.0	148.0	46.4	414.0	115.1	44.0	301.4
San Jose-Monterey	138.0	41.8	389.7	149.3	43.5	426.4	105.8	34.9	291.2
Los Angeles	127.1	40.8	353.2	134.4	40.9	379.1	124.2	41.9	339.7
<u>SEER DEATH RATES^b, 1997-2001</u>									
REGISTRY									
12 registries	25.9	5.7	78.7	26.2	5.3	81.0	35.1	10.5	99.6
11 registries	25.9	5.7	78.8	26.2	5.3	81.1	35.1	10.5	99.5
9 registries	26.2	5.6	80.1	26.3	5.2	81.7	35.1	10.0	100.8
San Francisco-Oakland	25.8	5.9	77.8	28.0	5.5	87.2	34.4	11.6	94.1
Connecticut	27.2	5.5	84.1	26.9	5.4	83.3	33.2	7.8	99.5
Metropolitan Detroit	30.1	6.6	91.6	28.2	5.3	88.2	37.0	10.6	106.4
Hawaii	19.7	4.3	60.0	25.9	-	84.5	-	-	-
Iowa	25.5	5.1	78.9	25.4	5.0	78.7	36.6	-	107.4
New Mexico	23.4	6.5	67.7	24.1	6.8	69.1	40.6	-	-
Seattle-Puget Sound	25.2	4.8	78.7	25.7	4.7	80.8	33.9	10.8	94.3
Utah	23.3	4.6	72.3	23.4	4.6	72.4	-	-	-
Metropolitan Atlanta	28.1	6.3	85.4	26.2	4.5	83.0	34.2	9.6	98.6
San Jose-Monterey	23.3	4.8	71.7	25.2	4.6	79.2	26.4	-	-
Los Angeles	25.5	6.3	75.9	26.1	5.8	79.1	35.6	12.1	97.0

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.

^a SEER 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b NCHS public use data file for the total US. Death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

- Statistic could not be calculated or populations are inadequate.

Table IV-15
 FEMALE BREAST CANCER (*In Situ*)

AGE-ADJUSTED SEER INCIDENCE RATES^a
 By Registry, Race and Age

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
<u>SEER INCIDENCE RATES^a, 1997-2001</u>									
REGISTRY									
12 registries	30.0	10.8	80.3	31.0	11.1	82.9	27.4	9.1	75.3
11 registries	30.0	10.8	80.3	31.0	11.1	82.9	27.4	9.1	75.3
9 registries	31.9	11.6	84.9	32.5	11.9	86.4	29.4	9.8	80.6
San Francisco-Oakland	31.4	11.7	82.8	32.9	11.9	87.9	22.9	8.4	60.9
Connecticut	39.8	16.4	101.1	40.4	16.6	102.6	31.3	12.7	80.0
Metropolitan Detroit	39.7	14.8	104.6	41.0	16.1	106.4	36.2	11.6	100.8
Hawaii	33.0	11.4	89.4	31.6	11.4	84.4	-	-	-
Iowa	23.7	8.3	64.0	23.8	8.4	64.3	-	-	-
New Mexico	20.4	7.0	55.4	21.8	7.7	58.7	-	-	-
Seattle-Puget Sound	33.3	11.2	91.4	34.1	11.7	92.9	28.9	-	86.7
Utah	22.2	7.1	62.0	22.6	7.1	63.3	-	-	-
Metropolitan Atlanta	30.1	10.3	81.8	33.3	11.5	90.4	24.0	8.7	64.1
San Jose-Monterey	30.0	10.4	81.4	31.7	10.5	87.1	22.1	-	-
Los Angeles	24.1	8.4	65.2	25.4	8.7	69.2	22.2	7.1	61.8

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.
^a SEER 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

- Statistic could not be calculated or populations are inadequate.

Table IV-16
 FEMALE BREAST CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, ALL RACES, 1997-2001

All Ages

State	Rate	SE	Rank	PD
TOTAL U.S.	27.0	0.06		
High Five States				
District of Columbia	37.3 ^{bc}	1.53	(01)	38.1
New Jersey	30.5 ^{bc}	0.35	(02)	13.0
Delaware	30.0 ^b	1.18	(03)	11.1
Louisiana	29.9 ^{bc}	0.51	(04)	10.7
Illinois	29.2 ^c	0.30	(05)	8.1
Low Five States				
Colorado	23.6 ^{bc}	0.49	(47)	-12.6
New Mexico	23.4 ^{bc}	0.71	(48)	-13.3
South Dakota	23.3 ^b	1.04	(49)	-13.7
Utah	23.3 ^{bc}	0.74	(50)	-13.7
Hawaii	19.7 ^{bc}	0.78	(51)	-27.0

Ages <50

State	Rate	SE	Rank	PD
TOTAL U.S.	6.1	0.03		
High Five States				
District of Columbia	10.8 ^{bc}	1.04	(01)	77.0
Mississippi	8.0 ^{bc}	0.41	(02)	31.1
Louisiana	7.6 ^{bc}	0.31	(03)	24.6
Alabama	7.5 ^{bc}	0.31	(04)	23.0
South Carolina	7.2 ^b	0.32	(05)	18.0
Low Five States				
Utah	4.6 ^{bc}	0.37	(47)	-24.6
South Dakota	4.6 ^b	0.60	(48)	-24.6
North Dakota	4.5 ^b	0.63	(49)	-26.2
Montana	4.3 ^b	0.51	(50)	-29.5
Hawaii	4.3 ^{bc}	0.44	(51)	-29.5

Ages 50+

State	Rate	SE	Rank	PD
TOTAL U.S.	81.6	0.19		
High Five States				
District of Columbia	106.9 ^{bc}	4.83	(01)	31.0
New Jersey	94.5 ^{bc}	1.17	(02)	15.8
Delaware	91.0 ^b	3.85	(03)	11.5
New York	88.8 ^{bc}	0.76	(04)	8.8
Ohio	88.8 ^{bc}	0.98	(05)	8.8
Low Five States				
South Dakota	72.4 ^b	3.43	(47)	-11.3
Utah	72.3 ^{bc}	2.50	(48)	-11.4
Colorado	71.9 ^{bc}	1.64	(49)	-11.9
New Mexico	67.7 ^{bc}	2.31	(50)	-17.0
Hawaii	60.0 ^{bc}	2.58	(51)	-26.5

For additional detailed cancer statistics by state, please visit the State Cancer Profiles website. <http://statecancerprofiles.cancer.gov/>

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.
^b Absolute percent difference between state rate and total U.S. rate is 10% or more.
^c Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
 SE Standard error of the rate.
 PD Percent difference between state rate and total U.S. rate.

Table IV-17
BREAST CANCER (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2001
By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since Diagnosis	0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	0 to <11 ^e	0 to <26 ^e	>=26 ^g	Complete ^h
Race/Sex									
All Races ^b	795,912	543,613	373,231	206,928	127,643	1,427,054	2,069,330	141,227	2,210,557
Males	4,879	2,640	1,676	926	574	7,932	10,737	426	11,163
Females	791,033	540,973	371,555	206,002	127,069	1,419,122	2,058,593	140,801	2,199,394
White ^b	700,869	487,453	340,297	188,493	117,015	1,267,718	1,854,404	125,610	1,980,014
Males	4,255	2,313	1,475	848	530	6,917	9,465	145 ⁱ	9,610
Females	696,614	485,140	338,822	187,645	116,485	1,260,801	1,844,939	125,465	1,970,404
Black ^b	66,979	40,377	23,971	13,656	7,621	113,305	153,842	+	+
Males	508	237	184	67	37	805	1,031	+	+
Females	66,471	40,140	23,787	13,589	7,584	112,500	152,811	9,628	162,439
Asian/Pacific Islander ^c	19,379	11,081	+	+	+	32,099	+	+	+
Males	54	60	+	+	+	120	+	+	+
Females	19,325	11,021	+	+	+	31,979	+	+	+
Hispanic ^d	34,959	21,292	+	+	+	59,416	+	+	+
Males	155	59	+	+	+	224	+	+	+
Females	34,804	21,233	+	+	+	59,192	+	+	+

Estimated prevalence percent^a on January 1, 2001, of the SEER 11 population diagnosed in the previous 10 years
By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence	Age Specific (Crude)										Age-Adjusted ^f
	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
Race/Sex											
All Races ^c	0.4211%	-	0.0001%	0.0050%	0.0750%	0.3804%	0.9446%	1.4084%	1.8604%	2.0605%	0.4571%
Males	0.0048%	-	-	-	0.0003%	0.0023%	0.0086%	0.0210%	0.0298%	0.0426%	0.0061%
Females	0.8274%	-	0.0003%	0.0102%	0.1517%	0.7523%	1.8335%	2.6367%	3.2321%	3.1312%	0.8318%
White ^c	0.4635%	-	0.0001%	0.0047%	0.0734%	0.3880%	0.9836%	1.5017%	1.9871%	2.1824%	0.4804%
Males	0.0052%	-	-	-	0.0004%	0.0022%	0.0082%	0.0216%	0.0306%	0.0443%	0.0062%
Females	0.9185%	-	0.0002%	0.0097%	0.1511%	0.7795%	1.9346%	2.8452%	3.4697%	3.2974%	0.8814%
Black ^c	0.2859%	-	-	0.0077%	0.0948%	0.3623%	0.8425%	1.1809%	1.5083%	1.5897%	0.3947%
Males	0.0046%	-	-	-	-	0.0024%	0.0146%	0.0269%	0.0415%	0.0424%	0.0078%
Females	0.5410%	-	-	0.0146%	0.1787%	0.6766%	1.5363%	2.0940%	2.4755%	2.3004%	0.6822%
Asian/Pacific Islander ^c	0.2851%	-	-	0.0047%	0.0659%	0.3452%	0.7472%	0.9535%	1.1215%	1.0811%	0.3188%
Males	0.0024%	-	-	-	-	0.0019%	0.0036%	0.0084%	0.0167%	0.0280%	0.0032%
Females	0.5490%	-	-	0.0093%	0.1279%	0.6522%	1.3999%	1.7253%	1.9507%	1.8133%	0.5783%
Hispanic ^d	0.1527%	-	-	0.0036%	0.0485%	0.2682%	0.6085%	0.9032%	1.2305%	1.3962%	0.3041%
Males	0.0011%	-	-	-	-	0.0015%	0.0038%	0.0089%	0.0130%	0.0238%	0.0030%
Females	0.3120%	-	-	0.0079%	0.1032%	0.5369%	1.1618%	1.6370%	2.0978%	2.1390%	0.5464%

^a US 2001 cancer prevalence counts are based on 2001 cancer prevalence proportions from the SEER registries and 1/1/2001 US population estimates based on the average of 2000 and 2001 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

^{b c d} Statistics based on b) SEER 9 Areas c) SEER 11 Areas d) SEER 11 Areas excluding Hawaii and Detroit.

^e Maximum limited-duration prevalence: 26 years for 1975-2001 SEER 9 data; 11 years for 1990-2001 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

^f Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.

^{g h i} (g) Cases diagnosed 26 years or more ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <26 and >=26. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry.

- Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

+ Not available.

SEER Incidence, Delay Adjusted Incidence and US Death Rates+ Female Breast Cancer, by Race

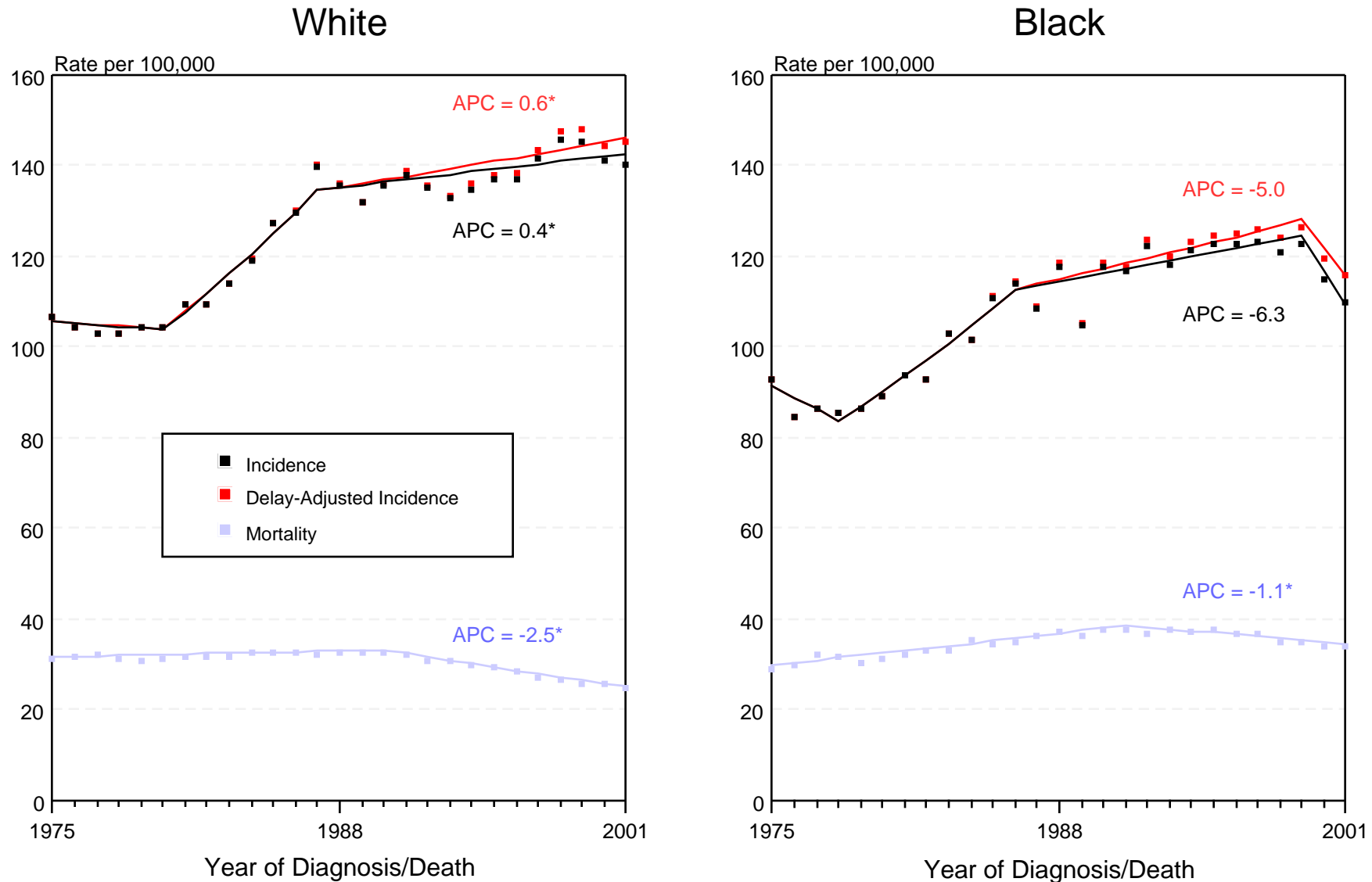


Figure IV-1

+ Source: SEER 9 areas and NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines and APCs are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute.

The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

* The APC is significantly different from zero ($p < 0.05$).

SEER Incidence and US Death Rates+ Female Breast Cancer, by Age and Race

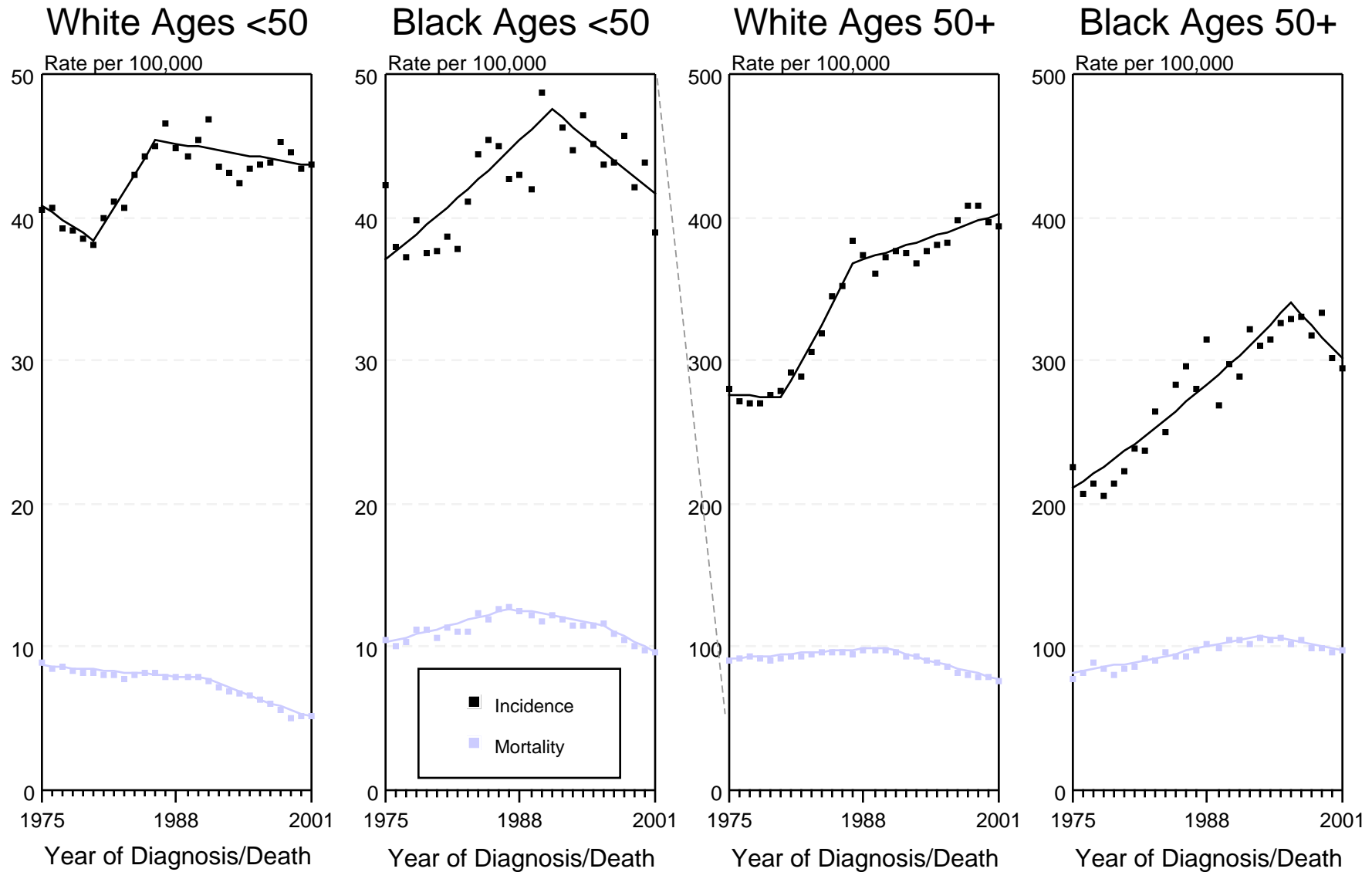


Figure IV-2

+ Source: SEER 9 areas and NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute.

SEER Incidence and Delay Adjusted Incidence Rates+ Female Breast Cancer (*In Situ*), by Race

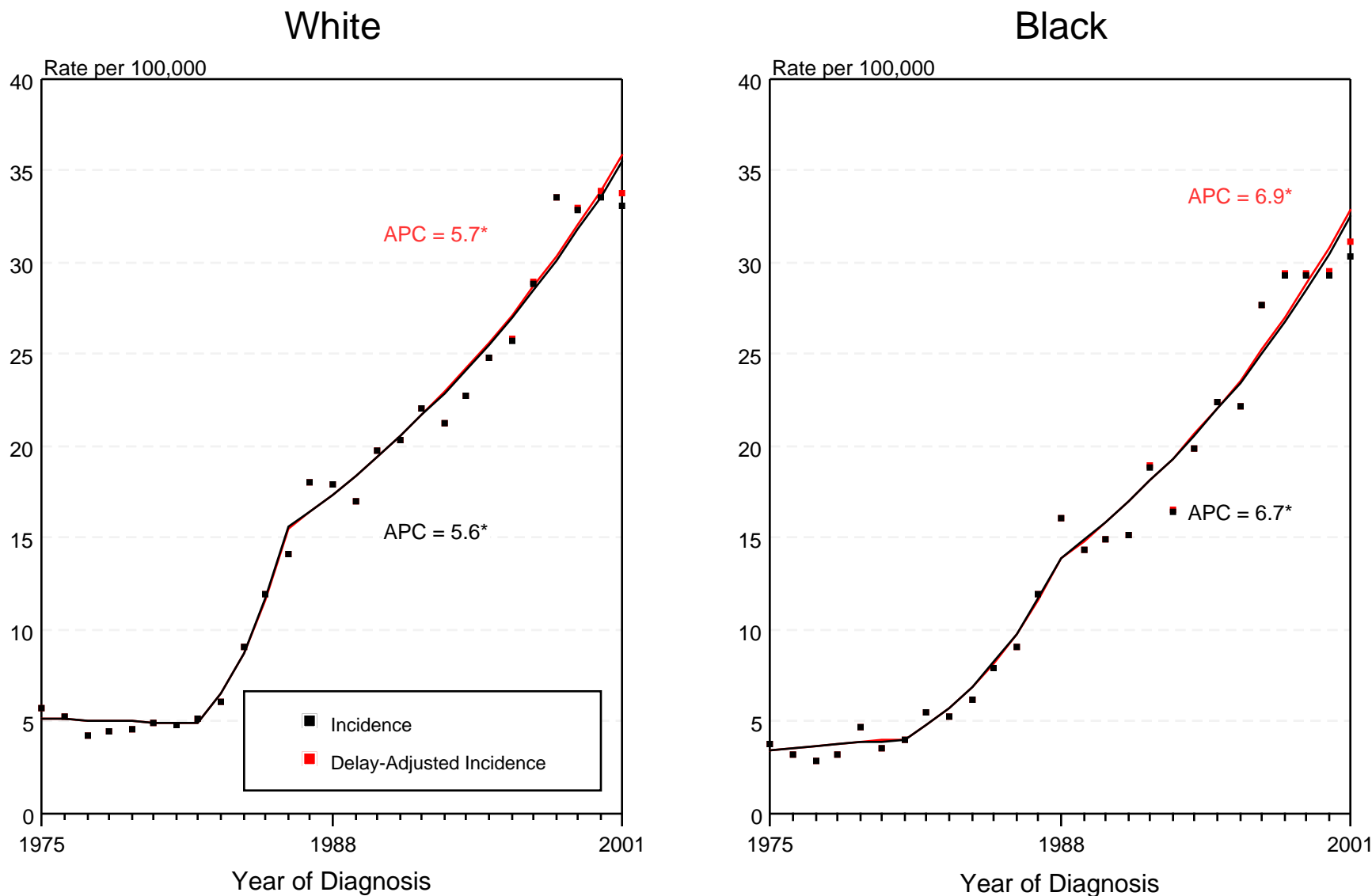


Figure IV-3

+ Source: SEER 9 areas. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines and APCs are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute. The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.
* The APC is significantly different from zero ($p < 0.05$).

Breast Cancer Incidence Rates, 1975-2001 by Age, *In Situ* vs Malignant All Races, Female

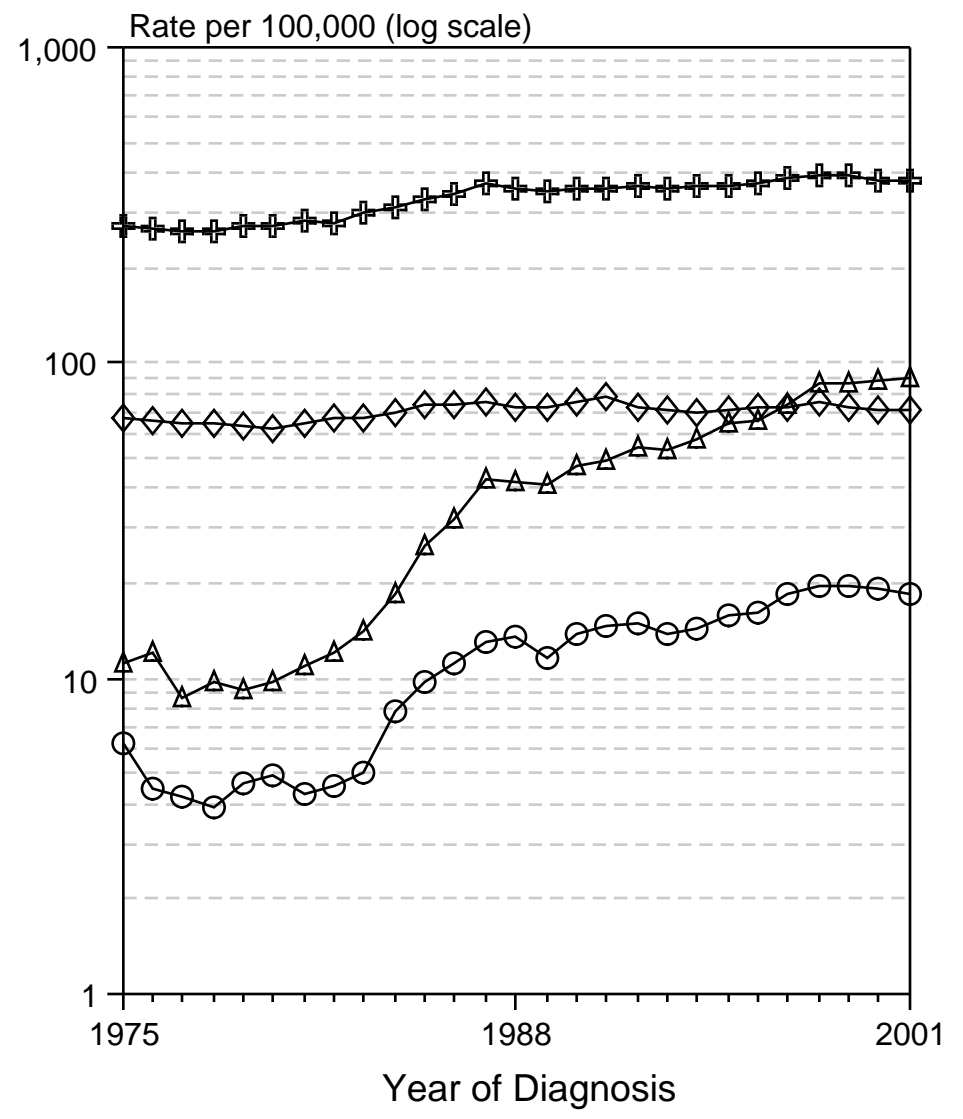
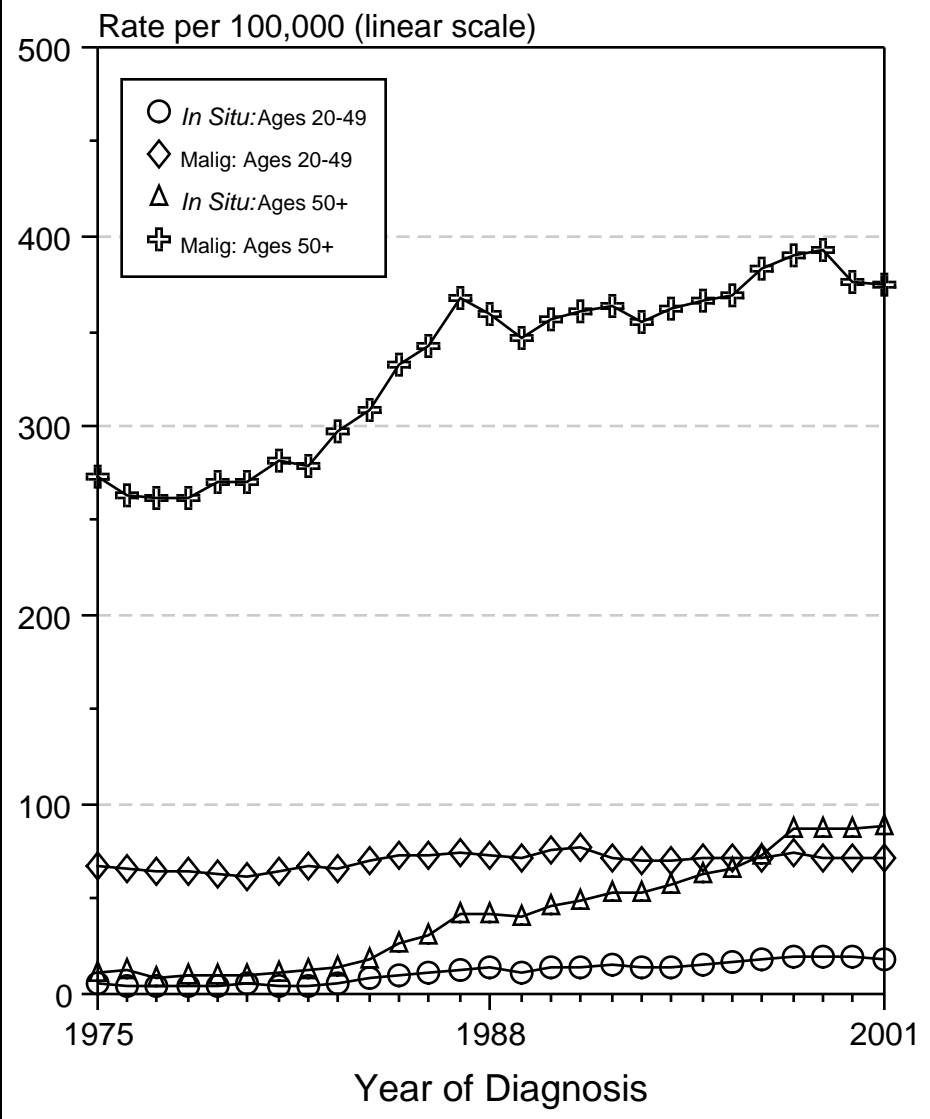


Figure IV-4

Source: SEER 9 areas. Rates are age-adjusted to 2000 US standard million population by 5-year age groups.

Breast Cancer Incidence Rates, 1975-2001 by Age, *In Situ* vs Malignant White Female

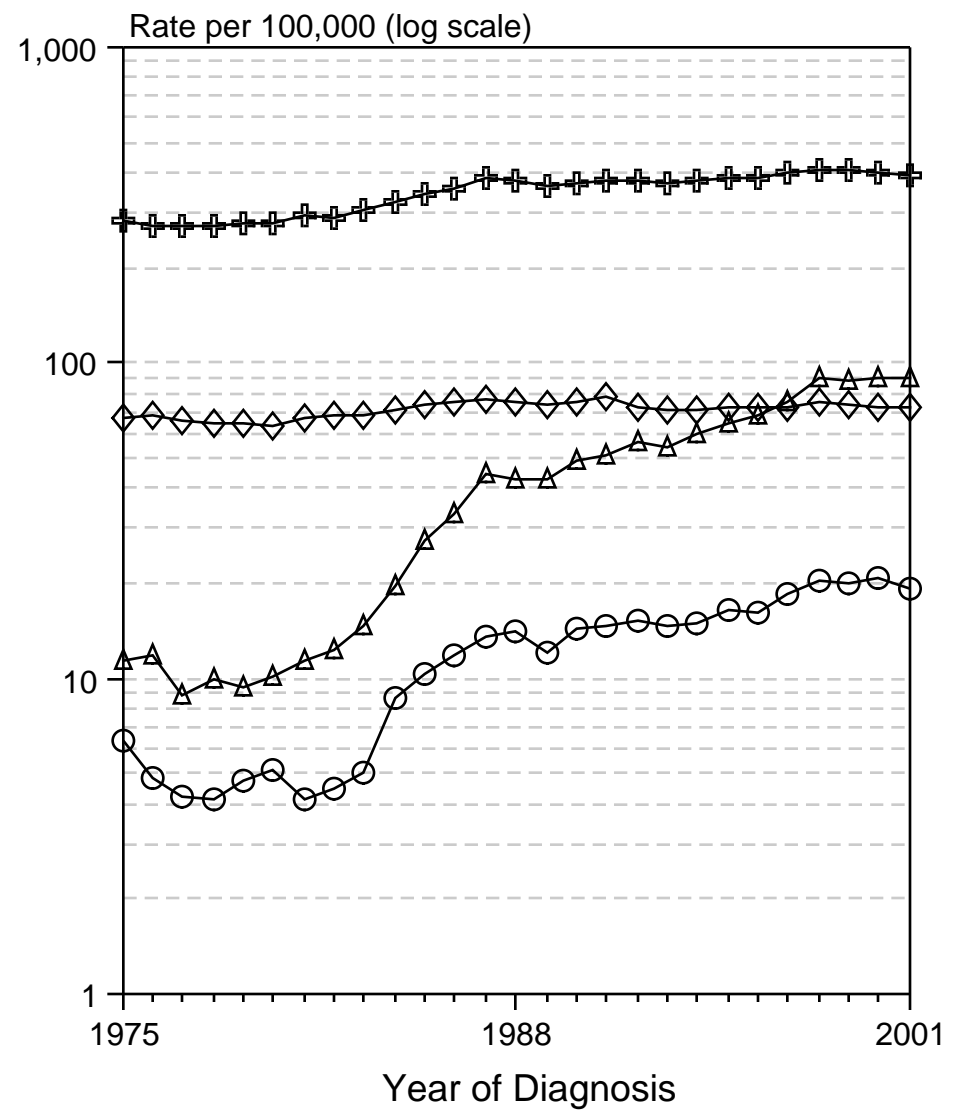
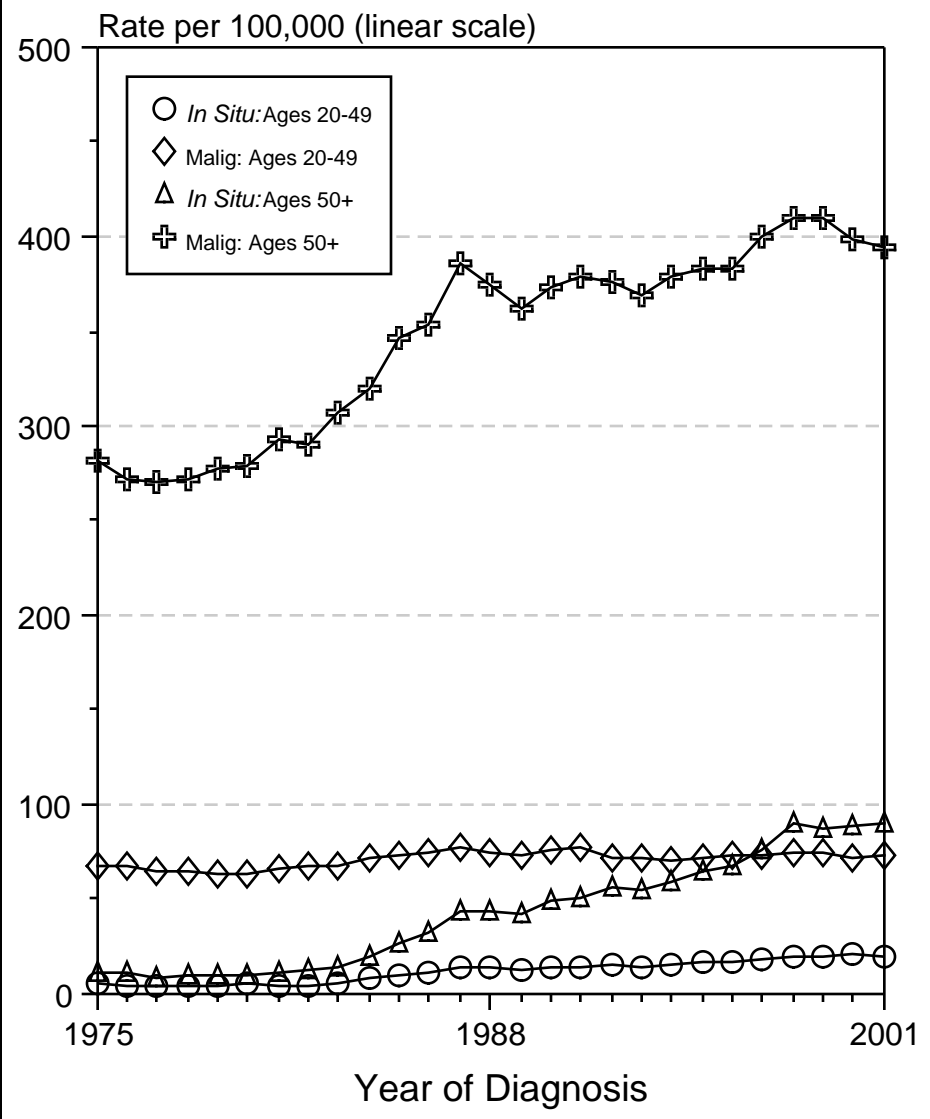


Figure IV-5

Source: SEER 9 areas. Rates are age-adjusted to 2000 US standard million population by 5-year age groups.

Breast Cancer Incidence Rates, 1975-2001 by Age, *In Situ* vs Malignant Black Female

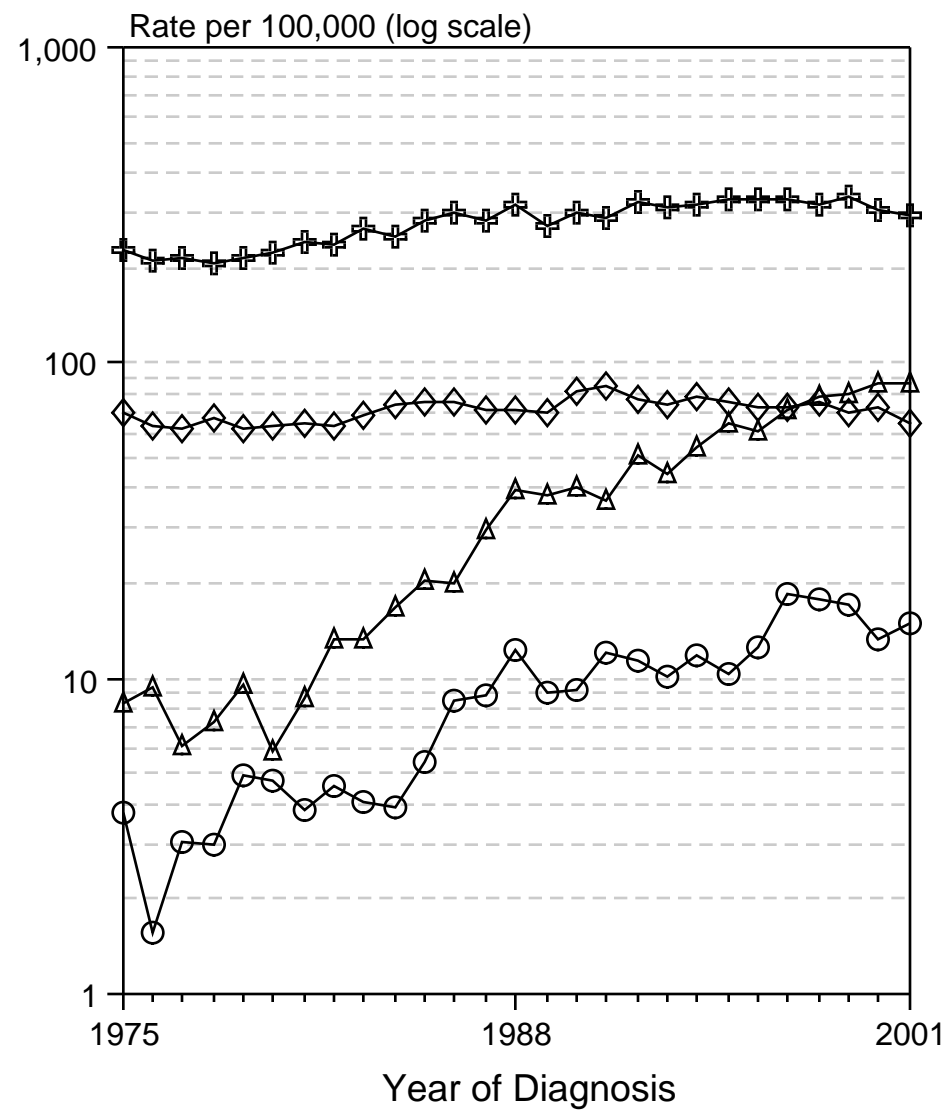
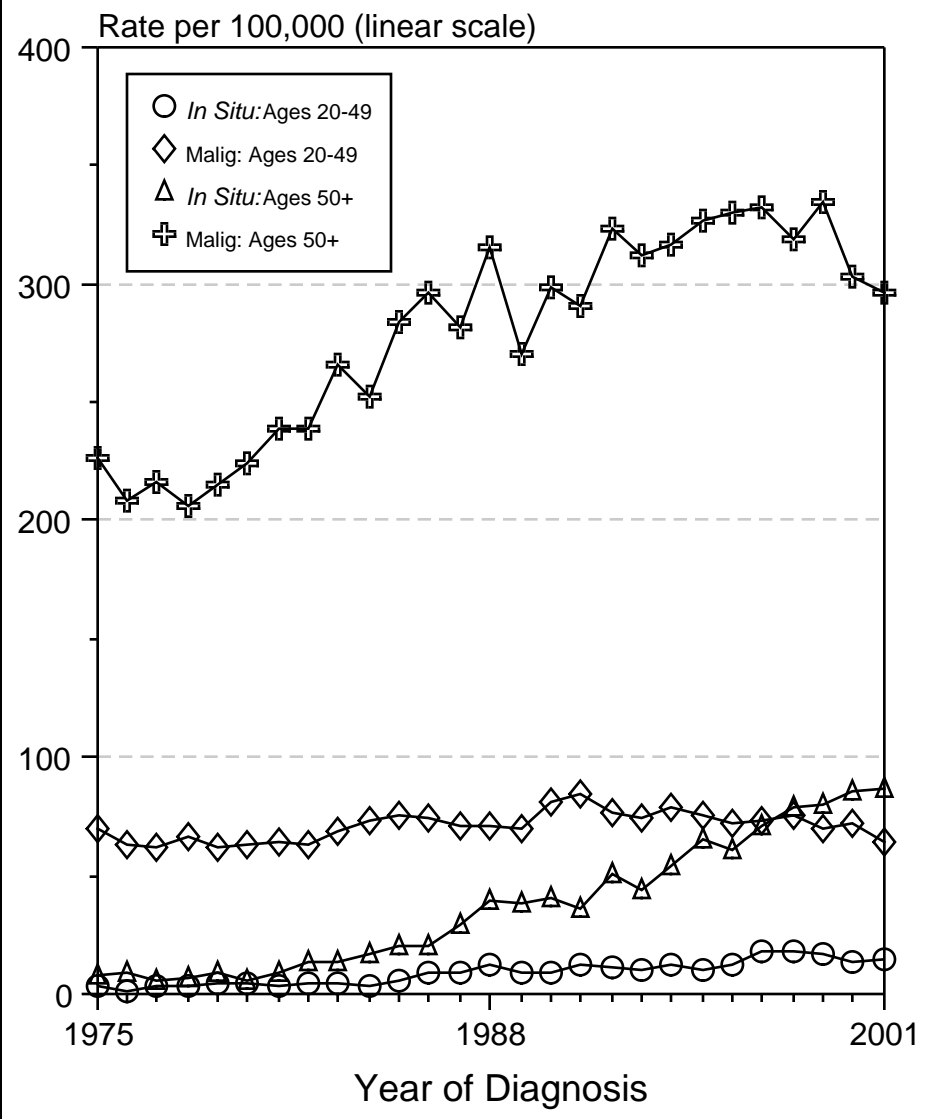
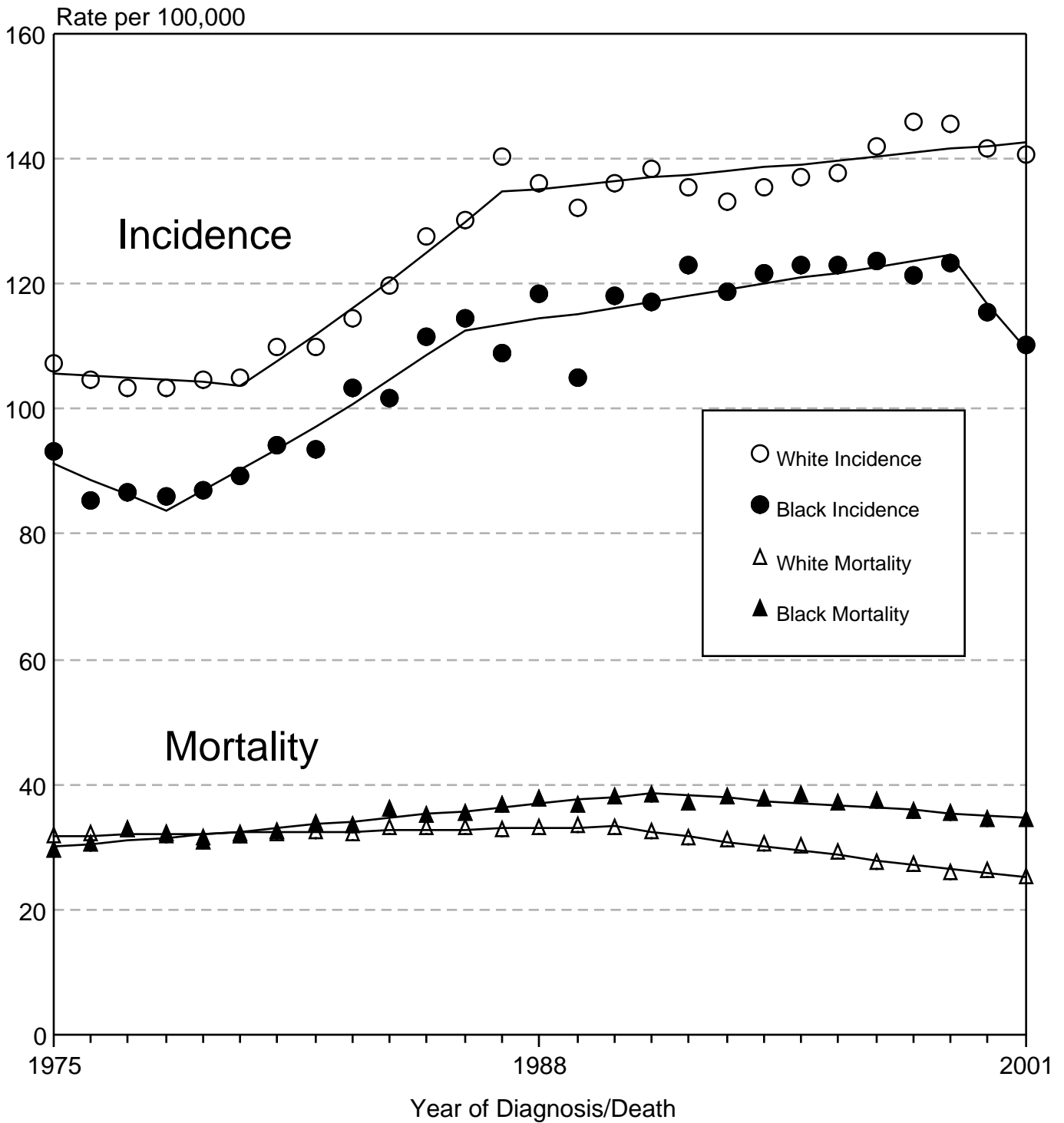


Figure IV-6

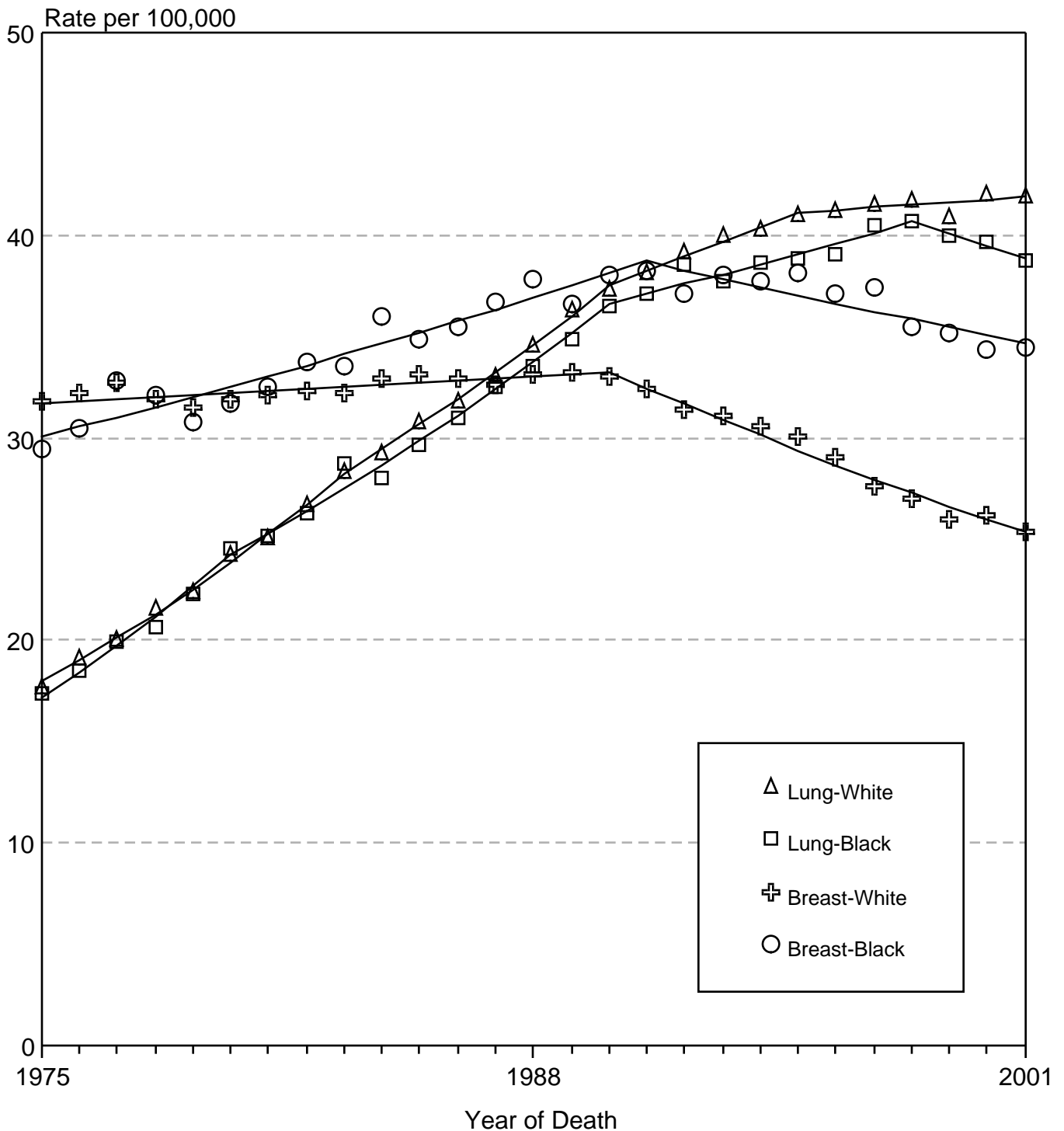
Source: SEER 9 areas. Rates are age-adjusted to 2000 US standard million population by 5-year age groups.

Breast Cancer Incidence & Mortality White Females vs Black Females 1975 - 2001



Source: NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute.

Breast vs Lung Cancer Mortality White Females vs Black Females 1975-2001



Source: NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute.