

BREAST CANCER DEATH RATES BY HEALTH SERVICE AREA, 1968-72

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INTRODUCTION

The purpose of this Statistical Note is to report breast cancer death rates for health service areas and to provide some guidance to health planners in the use of these rates. This information should be used in conjunction with the breast cancer mortality algorithm published by the Rand Corporation in 1977.¹

Among women, incidence and death rates are higher for breast cancer than for any other site (figure 1). Although breast cancer mortality is declining for women under 50 years of age, the death rates observed in women over 50 years continue to rise (see figure 2). Although little is known about the causes of breast cancer, certain characteristics have been associated with an increased likelihood of developing this disease. These risk factors include race, age, parity, age at menarche/menopause, previous benign breast disease, family history of breast cancer, and previous cancer.

- *Race.*—Breast cancer is a major threat for both races, but white women generally have a higher mortality rate than black women. For females 45 years and over, white women show a higher incidence of breast cancer than black women (tables A and B).

- *Age.*—There is a direct relationship between age and the development of breast cancer. Incidence and mortality from this disease increase with age, rising sharply at about age 45.²
- *Parity.*—Women who have their first child before age 30 are at lowest risk of breast cancer, followed by women who have never had children. Women who have first pregnancies after age 30 and women who have nonterm first pregnancies before age 30 are at greatest risk of developing breast cancer.³
- *Menarche/menopause.*—Menarche at an early age and late menopause (after age 55) are associated with a greater risk of breast cancer.¹
- *Previous benign breast disease.*—Women with a history of benign fibrocystic breast disease show a higher incidence of breast cancer than women without this history do.⁴
- *Family history of breast cancer.*—Daughters of women with breast cancer and women related to those with this disease have an increased risk of breast cancer.³
- *Previous cancer.*—Women who have endometrial cancer or cancer of the

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FIGURE 1. Cancer incidence and deaths by site and sex¹: United States, 1978 estimates

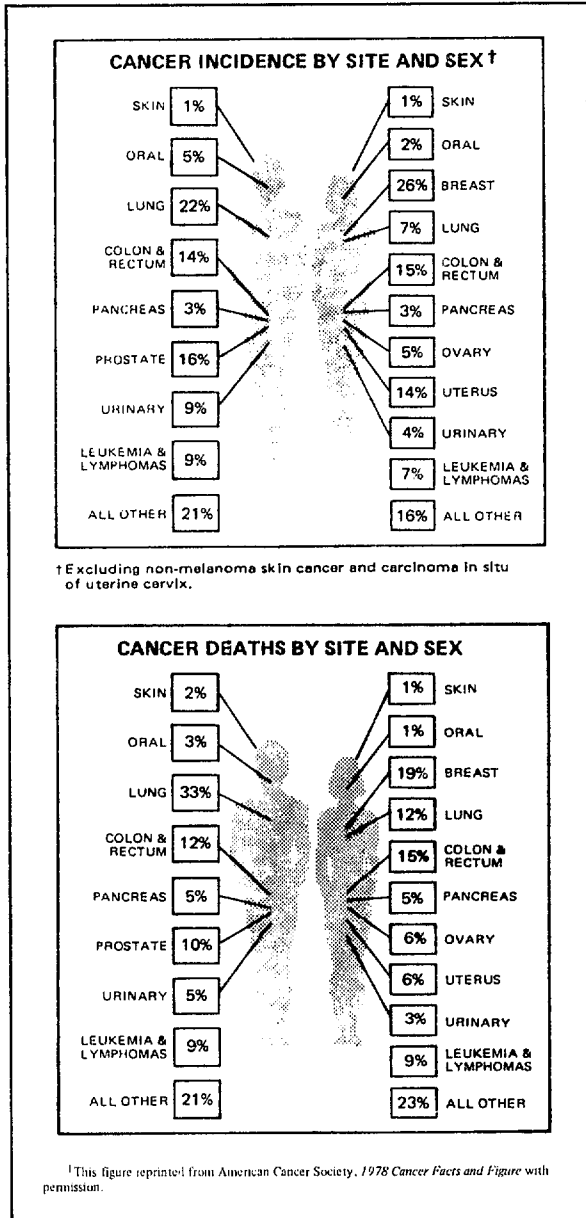


Figure 2. Breast cancer mortality rates per 100,000 women, by race and age: United States, 1950-76

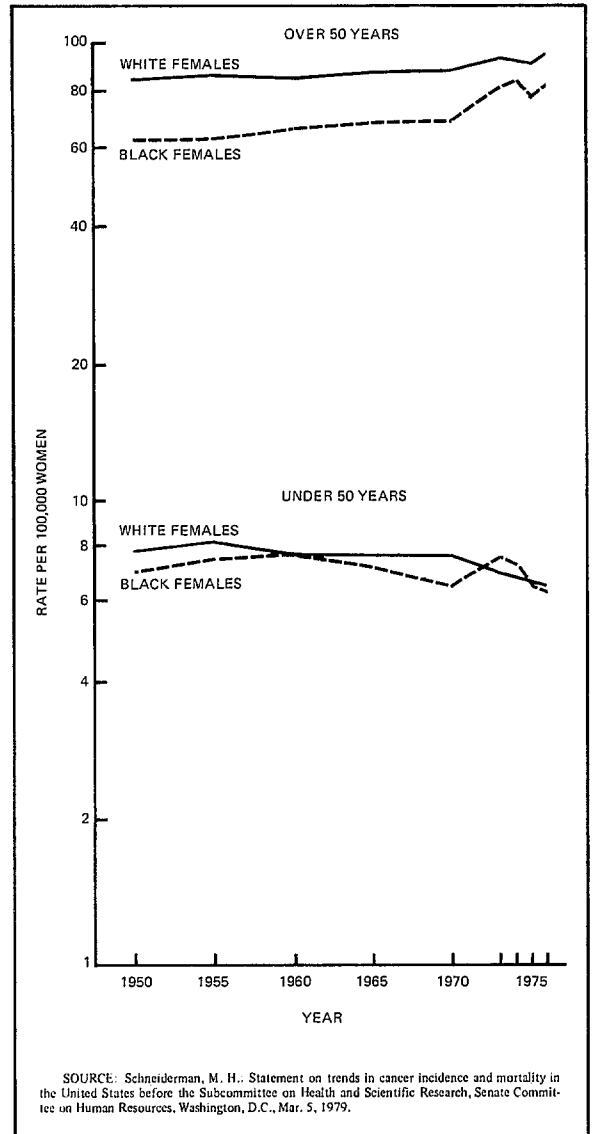


Table A. Age-specific breast cancer incidence rates per 100,000 women, by age and race, with average annual percent change: United States, 1947-76

Race and age	1947-48	1969-71	1973	1974	1975	1976	Average annual percent change
White							
20-44 years.....	36.9	36.1	31.5	35.3	32.1	30.4	-0.5
45-54 years.....	150.7	171.3	180.0	198.4	188.8	177.4	+0.6
55 years and over.....	246.1	237.0	260.8	305.6	285.1	268.7	+0.2
Black							
20-44 years.....	29.8	32.1	31.0	38.4	35.1	30.3	+0.4
45-54 years.....	99.1	124.4	132.1	151.6	176.5	146.8	+1.3
55 years and over.....	160.5	158.8	203.0	233.3	216.9	192.3	+0.6

SOURCE: Schneiderman, M. H.: Statement on trends in cancer incidence and mortality in the United States before the Subcommittee on Health and Scientific Research, Senate Committee on Human Resources, Washington, D.C., Mar. 5, 1979.

Table B. Age-specific breast cancer mortality rates per 100,000 women, by race and age, with average annual percent change: United States, 1950-76

Race and age	1950	1955	1960	1965	1970	1973	1974	1975	1976	Average annual percent change
White										
Under 50 years.....	7.9	8.2	7.7	7.6	7.6	7.0	6.8	6.7	6.4	-0.8
Over 50 years.....	83.4	86.1	85.5	88.3	89.8	92.9	92.2	91.5	94.0	+0.4
Black¹										
Under 50 years.....	7.0	7.4	7.7	7.2	6.6	7.5	7.3	6.5	6.2	-0.3
Over 50 years.....	61.4	61.8	66.3	68.2	69.0	81.4	83.9	78.7	81.7	+1.2

¹Includes females of races other than white from 1950 to 1970; includes black females from 1973 to 1976.

SOURCE: Schneiderman, M. H.: Statement on trends in cancer incidence and mortality in the United States before the Subcommittee on Health and Scientific Research, Senate Committee on Human Resources, Washington, D.C., Mar. 5, 1979.

uterine corpus have an increased likelihood of contracting breast cancer.³ Also, women who have had cancer in one breast have an increased risk of developing cancer in the other breast.

Describing risk-factor patterns is important for at least two reasons. First, identifying specific demographic characteristics of an area's population is essential for understanding a particular area's breast cancer mortality rates. Risk factors can also be used to identify target populations of women for breast cancer

screening. Chances for survival are good when cases of breast cancer are detected at an early stage (localized) and are treated adequately. Thus, health planners may play an important role in decreasing breast cancer mortality by concentrating their efforts on early diagnosis through screening women at greatest risk.

Because of the increasing effectiveness of treatment following the early detection of breast cancer, population-wide screening programs for breast cancer are becoming more available. Detection methods used in screening are physical examination, thermography,

mammography, and xeroradiography. Mammography is an X-ray examination of the breast which is rendered on film. Xeroradiography also utilizes X-rays for the diagnosis of breast cancer, but the recording medium is paper and the process is similar to "xerox" photocopying. A thermogram is a pictorial representation of breast-surface temperature which does not involve ionizing radiation. Abnormalities are detected by comparing both breasts for each woman and looking for high-temperature areas (hot spots) or an observed difference in heat patterns.

It is now believed that performing breast self-examination should be included in the health habits of all women who are of high school age and older. An association has been found between the detection of earlier stages of cancer and breast self-examination.^{5,6}

Physical examination and thermography have not yet been associated with any harmful effects. Thermography is a fairly new technique for diagnosing cancer of the breast and has not yet been recommended for widespread use. Although mammography is believed to be effective under certain circumstances, its safety as a screening modality has been questioned because of its use of radiation.⁷ In September of 1977, the National Institutes of Health and the National Cancer Institute sponsored a panel to develop a set of recommendations regarding breast cancer screening.⁸ The panel concluded that routine mammography screening was justifiable only for the following groups of women:

1. Women 50 years and over
2. Women aged 40-49 years with personal histories of breast cancer or whose mothers or sisters have such histories
3. Women under age 40 with personal histories of breast cancer

Perry discusses these recommendations in greater depth.⁸

The rest of this Note will present breast cancer death rates by health service area (HSA) for the period 1968-72. These rates

can be used as a baseline for comparing HSA's and for assessing the changes in mortality rates that have occurred since the baseline period.

DATA

The printout presents two sets of death rates for each HSA—white females and black females. (Rates for other races were not available from the data tapes that were prepared by Herbert Sauer at the University of Missouri under contract with NCHS.) Death rates and the observed number of deaths are presented for the following five age groups: 25-34, 35-44, 45-54, 55-64, and 65-74. The last column on the printout is the standardized mortality ratio (SMR) for the entire 25-74-year age span. Statistical Note No. 3⁹ presents a discussion of the SMR.

DATA USE

The evaluation of each HSA's data should include the examination of both the age-specific mortality rates and the SMR's.⁹ The first step of the analysis uses the SMR to screen for any problems with an area's overall death rates. The second step is to check for excess mortality in each of the age-specific groups.

The SMR compares an area's observed death rate with the expected death rate based on the age distribution of an area's population and a standard set of rates. The SMR will be used in this Note to compare a particular HSA's breast cancer death rates with those of the United States as the standard (see table C), in the following ways:

1. HSA white female breast cancer death rates with U.S. white female breast cancer death rates
2. HSA black female breast cancer death rates with U.S. black female breast cancer death rates

Delaware, which is a single-State HSA, can be used as an example.

To calculate the expected number of deaths, use the following formula:

$$\frac{1,000}{10,000} \sum p_a M_a$$

where

p_a = area population in age group a in thousands (see table D)

M_a = U.S. age-race-sex specific death rates for breast cancer per 10,000 women (see table E)

Table C. Average annual death rates per 10,000 women, by race and age: Delaware, 1968-72

Age	White	Black
25-34 years.....	0.4	0.4
35-44 years.....	1.6	4.5
45-54 years.....	6.1	10.0
55-64 years.....	7.0	7.3
65-74 years.....	8.2	8.9

Table D. Number of women and breast cancer observed deaths, by race and age: Delaware, 1968-72

Age	1970 census population (in thousands)		Breast cancer observed deaths ¹ (1968-72)	
	White	Black	White	Black
Total	121.8	17.5	219	43
25-34 years	30.7	4.9	5	1
35-44 years	28.6	4.4	20	9
45-54 years	28.5	3.8	79	17
55-64 years	20.3	2.7	64	9
65-74 years	13.7	1.7	51	7

¹Based on all deaths for 1968-71 and a 50-percent sample of 1972 deaths.

Table E. Average annual breast cancer death rates per 10,000 women, by race and age: United States, 1968-72

Age	White	Black
25-34 years.....	0.35	0.56
35-44 years.....	1.98	2.49
45-54 years.....	5.21	5.58
55-64 years.....	7.91	7.00
65-74 years.....	9.55	8.29

For white females, the expected number of deaths is:

$$\frac{1,000}{10,000} (30.7 \times 0.35 + 28.6 \times 1.98 + 28.5 \times 5.21 + 20.3 \times 7.91 + 13.7 \times 9.55) = 50.7 \text{ deaths per year}$$

Since the data span a 5-year period, the expected number of deaths would be 5×50.7 . However, the 1972 data are based on a 50-percent sample of the death certificates, while the 1968-71 data are based on 100 percent of the death certificates. Therefore, the expected number of deaths is:

$$4.5 \times 50.7 = 228.2$$

The general formula for calculating the SMR is:

$$100 \times \frac{\text{observed deaths in area } a}{\text{expected deaths for area } a}$$

(An SMR equal to 100 indicates that the observed number of deaths in the population of interest equals the expected number of deaths.)

Since there were 219 deaths observed (table D), the SMR for white females (WF) is:

$$SMR_{WF} = 100 \times \frac{219}{228.2} = 96.0$$

Therefore, this HSA has 4 percent fewer deaths for white females than expected based on the U.S. white female rates (obtained by calculating the difference between 100 and the SMR). In the case of black females in Delaware, the expected number of deaths is:

$$\frac{1,000}{10,000} (0.56 \times 4.9 + 2.49 \times 4.4 + 5.58 \times 3.8 + 7.0 \times 2.7 + 8.29 \times 1.7) = 6.8 \text{ deaths for 1 year}$$

and $4.5 \times 6.8 = 30.6$ deaths for the 4½-year sample. With 43 observed deaths (table D), the SMR for black females (BF) is:

$$SMR_{BF} = 100 \times \frac{43}{30.6} = 141.0$$

Therefore, for black females this HSA had 41 percent more deaths from breast cancer than were expected based on the U.S. black female rates.

To help in making decisions about the significance of the death rate for this HSA, the confidence intervals can be calculated for the age-specific rate by using the following formula:

$$SE(r) = \frac{r}{\sqrt{d}}$$

where

r = death rate (or SMR)
 d = observed number of deaths

The standard errors for the Delaware SMR's are as follows:

White females:

$$SE(SMR_{WF}) = \frac{96.0}{\sqrt{219}} = 6.49$$

Black females:

$$SE(SMR_{BF}) = \frac{141.0}{\sqrt{43}} = 21.49$$

General formulae for the 95-percent confidence intervals are:

$$\text{Upper limit: } r + 1.96 \times SE(r)$$

$$\text{Lower limit: } r - 1.96 \times SE(r)$$

(use r or the SMR).

Confidence limits for Delaware white females are:

$$\text{Upper limit: } 96.0 + 1.96 \times 6.49 = 108.72$$

$$\text{Lower limit: } 96.0 - 1.96 \times 6.49 = 83.28$$

This confidence interval ranges from a lower limit of 16.7 percent fewer deaths than expected to an upper limit of 8.7 percent

more deaths than expected. Therefore, we can say that a first look at the Delaware data indicates an average to below-average breast cancer death rate for white females.

The 95-percent confidence limits of the SMR for Delaware's black females are:

$$\text{Upper limit: } 141.0 + 1.96 \times 21.49 = 183.12$$

$$\text{Lower limit: } 141.0 - 1.96 \times 21.49 = 98.88$$

This is a very wide confidence interval since it ranges from a lower limit of approximately 1 percent fewer deaths than expected to an upper limit of 83 percent excess deaths. It appears that Delaware may have a high breast cancer mortality rate for black females. However, with a confidence interval that is so wide, more years of data are needed before reaching any conclusions about the magnitude of the excess breast cancer deaths among black females.

If the SMR indicates excess mortality, the next step in the data analysis is to look at the death rates in each of the five age groups and compare them with a standard set of rates. This could indicate whether or not a possible mortality problem is spread across all ages or if it is age specific. It is, of course, possible that this strategy of examining age-specific rates only when the SMR is high could miss an age group that exhibits high rates. However, one can be very flexible about what constitutes a high rate. For example, a local HSA may consider an SMR of 100 too high in the sense that it aims to have breast cancer mortality 20 percent lower than the U.S. rates. (Table F, which shows the distribution of breast cancer death rates among HSA's, may be helpful in choosing an acceptable level.)

Continuing with the Delaware example, let us assume that the SMR of 96 was considered too high. The next step is to compare the age-specific death rates to the U.S. rates for both races. The average annual death rates in the printout are obtained from the following formula:

$$\text{Average annual death rate} = \frac{\text{number of deaths observed}}{4.5 \times 1970 \text{ population of area } a}$$

Table F. Percentile distribution of breast cancer death rates per 100,000 women for health service areas (HSA's)¹ and number of areas upon which distribution is based, by race and age: United States, 1968-72

Percentile	White						Black					
	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	SMR ²	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	SMR
5.....	0.3	1.4	3.6	5.6	5.7	71.2	-	1.9	3.7	5.1	6.7	74.1
10.....	0.3	1.5	3.8	5.8	6.7	75.7	-	2.1	4.2	5.2	6.8	77.9
20.....	0.3	1.6	4.2	6.3	7.4	81.9	-	2.2	4.5	5.6	6.9	86.6
30.....	0.3	1.7	4.4	6.8	8.0	85.4	-	2.2	4.9	5.8	7.5	91.0
40.....	0.3	1.8	4.6	7.1	8.5	89.5	-	2.3	5.3	6.4	7.9	95.0
50.....	0.3	1.9	4.8	7.5	9.1	92.1	0.5	2.5	5.4	7.3	8.4	96.6
60.....	0.3	2.0	5.1	7.8	9.6	97.8	-	2.5	5.8	7.7	8.5	101.4
70.....	0.4	2.1	5.4	8.2	10.1	101.0	-	2.6	6.0	7.8	8.9	105.8
80.....	0.4	2.2	5.7	8.6	10.7	106.9	-	2.6	6.3	8.0	9.4	109.4
90.....	0.4	2.4	6.1	9.1	11.4	114.2	-	2.7	6.6	8.2	10.5	116.9
95.....	0.4	2.6	6.4	9.4	11.7	117.6	-	2.7	8.1	8.8	10.6	121.5
Number of HSA's.....	6	133	197	199	194	202	1	13	29	30	25	87

¹Based on HSA's with 25 or more expected deaths in age-race group.

²Standardized mortality ratio.

For white females, Delaware has a high rate only for the 45-54-year age group (tables E and C). In fact, the rate for this group is higher than in 90 percent of all HSA's (see table F). However, the confidence interval for this rate is 4.8-7.4, which includes the possibility of a below-average rate. The rates for black females, although based on small numbers of deaths, are above the U.S. average for all age groups except the youngest.

SUMMARY

This Note presents breast cancer death rates by HSA. If the mortality rate for this

disease in a HSA appears elevated, there are several areas in which health planners can hope to produce an impact on the health-care system. Included in these areas are public education, assuring the availability of adequate screening for high-risk women, and monitoring and improving the treatment processes used in an area (see reference 1). It is also possible to study areas with low death rates to try and understand what is affecting the breast cancer death rates.

It is important to be aware that breast cancer survival is measured in years. Therefore, it takes a long time for changes in screening or treatment to affect mortality.

REFERENCES

¹Kirsch, A. I., and Keeler, E.: *Algorithms for Health Planners*. Vol. 3. Breast Cancer Mortality. Santa Monica, Calif. Rand Corporation, Aug. 1977.

²Schneiderman, M. H.: Statement on trends in cancer incidence and mortality in the United States before the Subcommittee on Health and Scientific Research, Senate Committee on Human Resources, Washington, D.C., Mar. 5, 1979.

³McMahon, B., Cole, P., and Brown, J.: Etiology of human breast cancer: A review. *J. Natl. Cancer Inst.* 50:21-42, 1973.

⁴Rush, B. F., Jr.: Breast, in S. I. Schwartz, ed., *Principles of Surgery*, 2d ed. New York. McGraw-Hill, 1974. pp. 527-554.

⁵Foster, R. S., Jr., Lang, S. P., Costanza, M. C., Worder, J. K., Haines, C. R., and Yates, J. W.: Breast self-examination practices and breast cancer stage. *N. Eng. J. Med.* 229(6):265-270, Aug. 10, 1978.

⁶Greenwald, P., Nasca, P. C., Lawrence, C. E., Horton, J., McGarrah, R. P., Gabriele, T., and Carlton, K.: Effect of breast self-examination and routine physician examinations on breast cancer mortality. *N. Eng. J. Med.* 299(6):271-273, Aug. 10, 1978.

⁷Office of Technology Assessment, Congress of the United States: *Assessing the Efficacy and Safety of Medical Technology*. OTA-H-75. Washington. U.S. Government Printing Office. Sept. 1978. pp. 33-36.

⁸Perry, S.: National Institutes of Health/National Cancer Institute Consensus Development Meeting on breast cancer screening. *Oncology* 35:39-46, 1978.

⁹National Center for Health Statistics: Mortality, by J. C. Kleinman. *Statistical Notes for Health Planners*. No. 3. DHEW Pub. No. (HRA) 77-1237. Health Resources Administration. Rockville, Md., Feb. 1977.

SYMBOLS

Category not applicable-----	-
Quantity less than 0.05-----	0.0

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HEALTH SERVICE AREA CODES

The HSA codes as used in the following table have been modified to be consistent with county boundaries. As a result of the redefinition there are a total of 202 HSA's for which death rates have been computed.

The exceptions to the official HSA designations are as follows:

(a) The States requesting exemption from designating HSA's and the interstate HSA's are redefined as follows:

<i>Official HSA code</i>	<i>Redefined HSA code</i>
None	DE 01
None	DC 01
None	HI 01
None	RI 01
GA 01, TN 03.....	TN 03
GA 04, SC 05.....	GA 04
GA 05, AL 07.....	GA 05
IA 01, NE 04.....	IA 01
NE 03, IA 02.....	NE 03
IA 03, IL 10.....	IA 03
OH 01, KY 03.....	OH 01
ND 02, MN 01.....	ND 02
WI 07, MN 02.....	MN 02
ND 03, MN 03.....	ND 03
MO 01, KS 04.....	MO 01
MO 03, IL 11.....	MO 03
NY 04, PA 08.....	NY 04
TN 01, VA 06.....	TN 01

(b) HSA's officially listed as including parts of counties are redefined to include the following complete counties:

<i>Official HSA code</i>	<i>Counties included</i>
AK 01	All divisions in Alaska
AZ 01	Gila, Maricopa, Pinal
AZ 02	Cochise, Greenlee, Pima, Santa Cruz, Graham
AZ 03	Coconino, Yavapai, Apache, Navajo (includes AZ 04)
CT 01	Fairfield
CT 02	New Haven
CT 03	Middlesex, New London, Windham
CT 04	Hartford, Tolland
CT 05	Litchfield
IL 06	Area is not defined. Chicago is included in IL 07
IL 07	Cook, Dupage
MA 01	Berkshire, Franklin, Hampden, Hampshire
MA 02	Worcester
MA 03	Essex, Middlesex
MA 04	Norfolk, Suffolk
MA 05	Barnstable, Bristol, Dukes, Nantucket, Plymouth
MA 06	Area is not defined. The part counties of Essex and Middlesex are included in MA 03
NM 01	All counties in New Mexico (includes NM 02)
UT 01	All counties in Utah (includes UT 02)

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
AL	1	WF	RATE/10000	0.3	1.4	4.0	5.6	5.5	69.9
AL	1	WF	OBS DEATHS	6	24	60	66	42	198
AL	1	BF	RATE/10000	1.1	1.3	3.6	9.2	5.4	87.6
AL	1	BF	OBS DEATHS	2	2	5	11	5	25
AL	2	WF	RATE/10000	0.3	1.6	3.9	3.8	7.4	66.5
AL	2	WF	OBS DEATHS	1	6	14	13	18	52
AL	2	BF	RATE/10000	0.8	1.3	5.8	2.1	9.3	77.5
AL	2	BF	OBS DEATHS	1	2	8	3	10	24
AL	3	WF	RATE/10000	0.1	1.8	5.4	6.5	7.1	85.8
AL	3	WF	OBS DEATHS	2	30	92	93	71	288
AL	3	BF	RATE/10000	1.0	2.4	5.3	7.8	8.9	105.7
AL	3	BF	OBS DEATHS	5	14	30	41	35	125
AL	4	WF	RATE/10000	0.5	1.4	4.3	5.0	6.8	72.9
AL	4	WF	OBS DEATHS	5	14	44	46	41	150
AL	4	BF	RATE/10000	0.0	2.0	2.6	5.9	6.8	70.9
AL	4	BF	OBS DEATHS	0	4	5	10	8	27
AL	5	WF	RATE/10000	0.3	1.2	3.8	7.2	7.3	79.7
AL	5	WF	OBS DEATHS	4	13	42	69	48	176
AL	5	BF	RATE/10000	0.4	2.7	4.8	5.5	6.7	84.6
AL	5	BF	OBS DEATHS	2	12	21	23	22	80
AL	6	WF	RATE/10000	0.5	1.1	4.0	6.0	10.6	85.0
AL	6	WF	OBS DEATHS	6	11	42	53	63	175
AL	6	BF	RATE/10000	0.4	3.2	3.3	5.5	7.9	84.0
AL	6	BF	OBS DEATHS	2	17	17	26	29	91
AK	1	WF	RATE/10000	0.1	1.1	3.7	7.0	9.2	73.8
AK	1	WF	OBS DEATHS	1	7	17	15	6	46
AK	1	BF	RATE/10000	0.0	0.0	9.7	0.0	0.0	60.4
AK	1	BF	OBS DEATHS	0	0	1	0	0	1
AZ	1	WF	RATE/10000	0.2	2.1	4.2	7.8	7.2	87.2
AZ	1	WF	OBS DEATHS	5	56	109	163	110	443
AZ	1	BF	RATE/10000	0.0	3.7	2.9	8.9	5.9	91.0
AZ	1	BF	OBS DEATHS	0	3	2	5	2	12

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
AZ	2	WF	RATE/10000	0.2	1.8	3.8	6.6	7.6	79.9
AZ	2	WF	OBS DEATHS	2	19	43	62	52	178
AZ	2	BF	RATE/10000	0.0	0.0	4.2	5.1	0.0	42.0
AZ	2	BF	OBS DEATHS	0	0	1	1	0	2
AZ	3	WF	RATE/10000	0.0	1.2	1.9	3.9	6.8	52.2
AZ	3	WF	OBS DEATHS	0	3	5	9	19	27
AZ	3	BF	RATE/10000	0.0	0.0	17.6	0.0	0.0	99.5
AZ	3	BF	OBS DEATHS	0	0	1	0	0	1
AZ	5	WF	RATE/10000	0.9	1.5	3.8	9.0	6.7	90.9
AZ	5	WF	OBS DEATHS	2	3	8	16	7	36
AZ	5	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
AZ	5	BF	OBS DEATHS	0	0	0	0	0	0
AR	1	WF	RATE/10000	0.7	2.0	4.0	5.7	7.7	80.2
AR	1	WF	OBS DEATHS	10	25	54	80	85	254
AR	1	BF	RATE/10000	0.0	2.1	1.8	1.8	16.6	88.1
AR	1	BF	OBS DEATHS	0	1	1	1	8	11
AR	2	WF	RATE/10000	0.4	1.4	3.6	5.0	5.4	63.6
AR	2	WF	OBS DEATHS	4	14	38	51	39	146
AR	2	BF	RATE/10000	1.1	1.0	4.6	3.1	5.8	64.6
AR	2	BF	OBS DEATHS	2	2	10	7	11	32
AR	3	WF	RATE/10000	0.1	1.2	4.9	6.2	6.9	77.8
AR	3	WF	OBS DEATHS	1	11	43	45	35	135
AR	3	BF	RATE/10000	0.0	0.6	6.9	4.0	6.6	75.4
AR	3	BF	OBS DEATHS	0	1	11	6	8	26
AR	4	WF	RATE/10000	0.4	2.3	4.4	6.0	6.9	81.2
AR	4	WF	OBS DEATHS	3	18	38	49	41	149
AR	4	BF	RATE/10000	0.7	2.4	3.5	6.6	5.8	80.0
AR	4	BF	OBS DEATHS	2	7	11	22	17	59
CA	1	WF	RATE/10000	0.4	1.5	5.1	6.9	6.7	84.3
CA	1	WF	OBS DEATHS	5	18	67	79	53	222
CA	1	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
CA	1	BF	OBS DEATHS	0	0	0	0	0	0

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR							(SMR)	
NAME	-SEX	25-34	35-44	45-54	55-64	65-74	25-74	
CA	2 WF	RATE/10000	0.3	1.3	5.2	8.0	9.2	96.0
CA	2 WF	OBS DEATHS	9	32	127	140	100	408
CA	2 BF	RATE/10000	1.7	1.8	5.1	2.2	0.0	69.2
CA	2 BF	OBS DEATHS	2	2	4	1	0	9
CA	3 WF	RATE/10000	0.3	2.8	5.6	8.3	8.4	103.4
CA	3 WF	OBS DEATHS	3	29	62	75	58	227
CA	3 BF	RATE/10000	0.0	4.2	7.3	22.0	0.0	160.4
CA	3 BF	OBS DEATHS	0	2	3	5	0	10
CA	4 WF	RATE/10000	0.5	2.3	6.6	8.8	11.7	119.0
CA	4 WF	OBS DEATHS	18	73	246	284	268	889
CA	4 BF	RATE/10000	0.2	1.5	5.9	6.9	10.2	96.1
CA	4 BF	OBS DEATHS	1	5	19	14	10	49
CA	5 WF	RATE/10000	0.3	2.5	5.4	8.7	13.1	116.8
CA	5 WF	OBS DEATHS	12	91	209	243	249	804
CA	5 BF	RATE/10000	0.8	3.2	4.7	7.8	7.4	101.7
CA	5 BF	OBS DEATHS	5	17	25	26	13	86
CA	6 WF	RATE/10000	0.0	1.8	5.5	6.9	7.1	87.7
CA	6 WF	OBS DEATHS	0	27	88	87	61	263
CA	6 BF	RATE/10000	1.8	1.9	6.0	8.0	16.7	132.8
CA	6 BF	OBS DEATHS	1	1	3	3	4	12
CA	7 WF	RATE/10000	0.3	1.3	4.5	8.3	10.0	93.3
CA	7 WF	OBS DEATHS	13	36	114	128	96	384
CA	7 BF	RATE/10000	0.0	2.4	11.9	0.0	13.7	112.7
CA	7 BF	OBS DEATHS	0	1	3	0	1	5
CA	8 WF	RATE/10000	0.2	1.8	5.0	8.2	7.6	92.0
CA	8 WF	OBS DEATHS	2	19	55	80	59	215
CA	8 BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
CA	8 BF	OBS DEATHS	0	0	0	0	0	0
CA	9 WF	RATE/10000	0.2	2.1	4.7	6.5	9.6	91.3
CA	9 WF	OBS DEATHS	5	54	116	127	121	423
CA	9 BF	RATE/10000	0.0	2.7	3.8	4.5	10.3	83.7
CA	9 BF	OBS DEATHS	0	3	4	4	6	17

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX							25-74
CA 10	WF	RATE/10000	0.3	2.4	4.3	7.3	8.3	90.9
CA 10	WF	OBS DEATHS	5	40	62	74	62	243
CA 10	BF	RATE/10000	0.0	3.2	15.4	0.0	0.0	107.9
CA 10	BF	OBS DEATHS	0	1	3	0	0	4
CA 11	WF	RATE/10000	0.4	2.3	5.5	8.8	9.8	108.1
CA 11	WF	OBS DEATHS	70	378	982	1205	948	3583
CA 11	BF	RATE/10000	0.4	2.2	6.0	7.7	9.7	105.1
CA 11	BF	OBS DEATHS	12	47	105	93	67	324
CA 12	WF	RATE/10000	0.2	1.8	4.6	7.0	7.7	85.5
CA 12	WF	OBS DEATHS	5	49	126	164	148	492
CA 12	BF	RATE/10000	0.7	1.6	4.4	11.5	13.2	119.8
CA 12	BF	OBS DEATHS	1	2	4	8	6	21
CA 13	WF	RATE/10000	0.4	2.0	4.6	7.1	9.9	95.0
CA 13	WF	OBS DEATHS	17	83	161	147	158	566
CA 13	BF	RATE/10000	2.6	4.5	0.0	0.0	0.0	83.0
CA 13	BF	OBS DEATHS	1	1	0	0	0	2
CA 14	WF	RATE/10000	0.4	1.6	5.2	7.7	9.1	96.0
CA 14	WF	OBS DEATHS	15	52	176	194	170	607
CA 14	BF	RATE/10000	0.0	4.7	0.9	9.6	2.5	81.7
CA 14	BF	OBS DEATHS	0	7	1	7	1	16
CO 1	WF	RATE/10000	0.3	1.6	4.4	7.8	9.2	91.8
CO 1	WF	OBS DEATHS	15	62	155	204	166	602
CO 1	BF	RATE/10000	0.0	2.8	1.8	5.9	13.2	83.9
CO 1	BF	OBS DEATHS	0	4	2	4	6	16
CO 2	WF	RATE/10000	0.2	1.2	4.5	6.7	7.8	80.5
CO 2	WF	OBS DEATHS	2	15	52	61	50	180
CO 2	BF	RATE/10000	0.0	3.3	12.8	18.8	0.0	151.8
CO 2	BF	OBS DEATHS	0	1	2	2	0	5
CO 3	WF	RATE/10000	0.0	1.8	5.7	8.0	5.5	89.1
CO 3	WF	OBS DEATHS	0	9	28	33	15	85
CO 3	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
CO 3	BF	OBS DEATHS	0	0	0	0	0	0

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
CT	1	WF	RATE/10000	0.5	1.9	4.5	8.4	9.4	97.7
CT	1	WF	OBS DEATHS	10	41	105	144	106	406
CT	1	BF	RATE/10000	0.5	1.9	3.2	8.4	11.3	92.6
CT	1	BF	OBS DEATHS	1	3	4	7	5	20
CT	2	WF	RATE/10000	0.2	2.3	6.0	9.4	11.5	117.6
CT	2	WF	OBS DEATHS	4	42	128	154	133	461
CT	2	BF	RATE/10000	0.5	2.0	6.2	6.1	10.5	100.0
CT	2	BF	OBS DEATHS	1	3	7	4	4	19
CT	3	WF	RATE/10000	0.1	1.8	5.1	8.7	10.5	103.5
CT	3	WF	OBS DEATHS	1	19	57	74	64	215
CT	3	BF	RATE/10000	0.0	3.4	0.0	0.0	27.6	84.6
CT	3	BF	OBS DEATHS	0	1	0	0	2	3
CT	4	WF	RATE/10000	0.5	1.9	5.9	9.2	10.0	110.8
CT	4	WF	OBS DEATHS	11	44	148	172	127	502
CT	4	BF	RATE/10000	1.0	3.4	5.5	4.8	17.7	124.1
CT	4	BF	OBS DEATHS	2	5	6	3	7	23
CT	5	WF	RATE/10000	0.0	1.7	6.7	8.0	10.9	108.8
CT	5	WF	OBS DEATHS	0	6	28	28	26	88
CT	5	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
CT	5	BF	OBS DEATHS	0	0	0	0	0	0
DE	1	WF	RATE/10000	0.4	1.6	6.1	7.0	8.2	95.8
DE	1	WF	OBS DEATHS	5	20	79	64	51	219
DE	1	BF	RATE/10000	0.4	4.5	10.0	7.3	8.9	139.4
DE	1	BF	OBS DEATHS	1	9	17	9	7	43
DC	1	WF	RATE/10000	0.3	1.6	7.0	9.1	11.1	116.6
DC	1	WF	OBS DEATHS	2	7	45	73	76	203
DC	1	BF	RATE/10000	0.6	2.2	6.5	7.8	8.5	108.3
DC	1	BF	OBS DEATHS	12	34	91	76	45	258
FL	1	WF	RATE/10000	0.2	1.5	4.3	5.8	5.3	71.9
FL	1	WF	OBS DEATHS	4	22	58	58	34	176
FL	1	BF	RATE/10000	0.9	2.9	5.1	3.3	6.8	81.2
FL	1	BF	OBS DEATHS	3	10	16	9	13	51

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR NAME -SEX				25-34	35-44	45-54	55-64	65-74	(SMR) 25-74
FL	2	WF	RATE/10000	0.4	1.6	4.4	6.0	5.3	71.2
FL	2	WF	OBS DEATHS	3	12	36	52	38	141
FL	2	BF	RATE/10000	0.0	2.9	3.5	7.2	10.1	95.4
FL	2	BF	OBS DEATHS	3	6	7	13	13	39
FL	3	WF	RATE/10000	0.2	2.6	4.9	6.0	6.7	85.4
FL	3	WF	OBS DEATHS	3	35	64	58	43	203
FL	3	BF	RATE/10000	0.5	0.9	4.8	6.0	9.8	86.6
FL	3	BF	OBS DEATHS	2	3	16	16	18	55
FL	4	WF	RATE/10000	0.3	1.8	5.5	6.5	8.0	87.6
FL	4	WF	OBS DEATHS	8	42	155	223	307	735
FL	4	BF	RATE/10000	0.8	1.9	7.7	6.1	6.0	98.6
FL	4	BF	OBS DEATHS	3	6	21	14	9	53
FL	5	WF	RATE/10000	0.3	1.8	4.2	7.4	8.9	89.9
FL	5	WF	OBS DEATHS	6	37	86	118	124	371
FL	5	BF	RATE/10000	0.3	2.6	5.4	6.5	8.1	95.5
FL	5	BF	OBS DEATHS	1	7	12	12	19	42
FL	6	WF	RATE/10000	0.3	1.7	4.4	6.6	7.7	83.1
FL	6	WF	OBS DEATHS	3	20	61	117	127	328
FL	6	BF	RATE/10000	0.3	2.1	6.4	5.5	14.8	109.3
FL	6	BF	OBS DEATHS	9	4	10	7	12	33
FL	7	WF	RATE/10000	0.2	1.6	4.2	6.8	8.0	83.9
FL	7	WF	OBS DEATHS	2	15	45	85	97	244
FL	7	BF	RATE/10000	0.8	0.9	7.1	7.0	7.3	96.9
FL	7	BF	OBS DEATHS	2	2	13	10	6	33
FL	8	WF	RATE/10000	0.5	2.0	4.7	7.1	8.7	91.7
FL	8	WF	OBS DEATHS	7	27	75	135	159	403
FL	8	BF	RATE/10000	0.8	2.9	4.8	0.0	4.1	65.2
FL	8	BF	OBS DEATHS	2	6	7	0	2	17
FL	9	WF	RATE/10000	0.5	2.1	5.5	7.9	8.2	97.5
FL	9	WF	OBS DEATHS	15	68	190	252	229	754
FL	9	BF	RATE/10000	0.8	2.4	6.2	9.7	7.6	113.3
FL	9	BF	OBS DEATHS	5	13	25	27	12	82

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR				25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX								25-74
GA	2	WF	RATE/10000	0.3	2.1	4.5	6.4	7.1	83.5
GA	2	WF	OBS DEATHS	4	24	52	63	46	189
GA	2	BF	RATE/10000	0.0	1.0	3.3	3.6	9.6	65.8
GA	2	BF	OBS DEATHS	0	1	3	3	5	12
GA	3	WF	RATE/10000	0.2	2.0	5.1	6.8	8.4	90.9
GA	3	WF	OBS DEATHS	9	78	187	185	148	607
GA	3	BF	RATE/10000	0.6	2.5	8.4	5.7	7.6	107.3
GA	3	BF	OBS DEATHS	8	25	74	42	36	186
GA	4	WF	RATE/10000	0.1	1.4	4.1	7.7	6.3	79.6
GA	4	WF	OBS DEATHS	1	14	40	61	34	150
GA	4	BF	RATE/10000	0.0	3.2	4.0	7.6	5.0	85.1
GA	4	BF	OBS DEATHS	0	12	15	25	12	64
GA	5	WF	RATE/10000	0.4	1.5	4.3	6.4	8.4	83.2
GA	5	WF	OBS DEATHS	6	19	55	64	57	201
GA	5	BF	RATE/10000	0.6	1.6	3.7	7.8	3.9	75.8
GA	5	BF	OBS DEATHS	4	10	21	39	14	88
GA	6	WF	RATE/10000	0.6	1.9	3.1	5.8	6.3	71.9
GA	6	WF	OBS DEATHS	5	16	26	42	31	120
GA	6	BF	RATE/10000	0.7	2.1	4.5	5.5	4.5	74.1
GA	6	BF	OBS DEATHS	3	8	17	19	12	59
GA	7	WF	RATE/10000	0.2	1.4	5.4	4.5	6.9	74.9
GA	7	WF	OBS DEATHS	2	13	51	35	36	137
GA	7	BF	RATE/10000	0.3	1.9	6.7	7.0	6.0	94.4
GA	7	BF	OBS DEATHS	1	7	24	21	13	66
HI	1	WF	RATE/10000	0.3	1.4	3.5	6.4	8.1	75.7
HI	1	WF	OBS DEATHS	3	10	20	23	16	72
HI	1	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
HI	1	BF	OBS DEATHS	0	0	0	0	0	0
ID	1	WF	RATE/10000	0.5	1.4	4.8	7.0	8.9	89.7
ID	1	WF	OBS DEATHS	9	23	84	100	83	299
ID	1	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
ID	1	BF	OBS DEATHS	0	0	0	0	0	0

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR NAME -SEX				25-34	35-44	45-54	55-64	65-74	(SMR) 25-74
IL	1	WF	RATE/10000	0.5	1.9	5.5	8.7	11.5	111.2
IL	1	WF	OBS DEATHS	8	27	77	96	92	300
IL	1	BF	RATE/10000	1.6	2.0	5.9	8.6	0.0	99.6
IL	1	BF	OBS DEATHS	1	1	2	2	0	6
IL	2	WF	RATE/10000	0.2	1.7	4.1	8.3	10.7	97.8
IL	2	WF	OBS DEATHS	4	28	74	127	123	356
IL	2	BF	RATE/10000	0.0	0.0	8.5	7.8	18.1	124.0
IL	2	BF	OBS DEATHS	0	0	3	2	3	8
IL	3	WF	RATE/10000	0.3	1.4	4.0	7.5	9.1	88.7
IL	3	WF	OBS DEATHS	4	19	60	103	103	289
IL	3	BF	RATE/10000	3.5	0.0	3.7	0.0	17.1	90.6
IL	3	BF	OBS DEATHS	1	0	1	0	3	5
IL	4	WF	RATE/10000	0.5	1.9	5.1	7.5	10.2	100.2
IL	4	WF	OBS DEATHS	10	34	92	114	122	372
IL	4	BF	RATE/10000	0.0	4.5	7.6	12.5	4.3	132.2
IL	4	BF	OBS DEATHS	0	3	4	5	1	13
IL	5	WF	RATE/10000	0.3	1.7	4.6	6.5	8.3	85.3
IL	5	WF	OBS DEATHS	4	22	72	99	105	302
IL	5	BF	RATE/10000	3.2	0.0	2.5	0.0	7.6	52.7
IL	5	BF	OBS DEATHS	1	0	1	0	3	5
IL	7	WF	RATE/10000	0.4	2.4	6.0	9.3	11.2	117.3
IL	7	WF	OBS DEATHS	51	305	850	1099	867	3172
IL	7	BF	RATE/10000	0.6	2.5	6.2	6.4	11.0	107.8
IL	7	BF	OBS DEATHS	23	85	163	113	121	505
IL	8	WF	RATE/10000	0.2	2.2	6.8	8.0	11.4	114.6
IL	8	WF	OBS DEATHS	5	41	121	105	97	369
IL	8	BF	RATE/10000	0.0	4.3	1.9	9.0	10.8	99.5
IL	8	BF	OBS DEATHS	0	3	1	3	2	9
IL	9	WF	RATE/10000	0.5	2.1	5.4	6.8	9.9	98.9
IL	9	WF	OBS DEATHS	5	20	50	48	47	170
IL	9	BF	RATE/10000	0.0	3.2	7.6	7.5	7.2	110.0
IL	9	BF	OBS DEATHS	0	2	4	3	2	11

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR				25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX								25-74
IN	1	WF	RATE/10000	0.4	1.6	5.3	7.2	10.4	98.1
IN	1	WF	OBS DEATHS	18	69	245	252	249	833
IN	1	BF	RATE/10000	1.1	1.8	8.1	8.7	9.3	121.5
IN	1	BF	OBS DEATHS	5	8	28	20	13	74
IN	2	WF	RATE/10000	0.4	2.1	4.8	7.7	10.2	99.9
IN	2	WF	OBS DEATHS	22	104	238	298	282	944
IN	2	BF	RATE/10000	0.6	3.1	6.5	8.0	10.1	118.7
IN	2	BF	OBS DEATHS	3	14	25	23	19	84
IN	3	WF	RATE/10000	0.3	1.6	5.0	6.1	9.0	87.4
IN	3	WF	OBS DEATHS	9	47	153	161	184	554
IN	3	BF	RATE/10000	0.0	1.7	9.3	5.4	18.7	140.0
IN	3	BF	OBS DEATHS	0	1	6	3	8	18
IA	1	WF	RATE/10000	0.4	1.7	5.0	7.8	9.7	98.2
IA	1	WF	OBS DEATHS	22	103	312	429	434	1300
IA	1	BF	RATE/10000	1.4	3.1	7.1	4.6	13.1	121.4
IA	1	BF	OBS DEATHS	1	2	4	2	4	13
IA	3	WF	RATE/10000	0.4	2.0	3.9	7.4	11.0	95.6
IA	3	WF	OBS DEATHS	4	20	41	65	69	199
IA	3	BF	RATE/10000	0.0	3.5	0.0	6.9	11.5	78.1
IA	3	BF	OBS DEATHS	0	1	0	1	1	3
KS	1	WF	RATE/10000	0.5	2.2	4.0	7.1	9.6	92.7
KS	1	WF	OBS DEATHS	5	22	43	72	77	219
KS	1	BF	RATE/10000	0.0	0.0	0.0	0.0	37.7	121.3
KS	1	BF	OBS DEATHS	0	0	0	0	2	2
KS	2	WF	RATE/10000	0.4	1.6	4.7	6.9	7.8	86.0
KS	2	WF	OBS DEATHS	5	19	56	78	76	234
KS	2	BF	RATE/10000	0.0	4.1	12.0	0.0	9.9	110.1
KS	2	BF	OBS DEATHS	0	2	5	0	3	10
KS	3	WF	RATE/10000	0.3	1.6	3.6	8.2	8.2	87.0
KS	3	WF	OBS DEATHS	6	30	75	153	121	385
KS	3	BF	RATE/10000	1.0	1.1	7.1	3.5	12.0	98.0
KS	3	BF	OBS DEATHS	1	1	5	2	5	14

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
KY	1	WF	RATE/10000	0.4	1.9	5.0	6.8	8.7	91.3
KY	1	WF	OBS DEATHS	16	72	190	224	212	714
KY	1	BF	RATE/10000	1.0	1.5	4.5	8.2	8.5	97.5
KY	1	BF	OBS DEATHS	4	6	18	28	22	78
KY	2	WF	RATE/10000	0.4	2.2	4.4	5.3	5.5	73.8
KY	2	WF	OBS DEATHS	12	69	136	142	109	468
KY	2	BF	RATE/10000	0.8	4.4	5.0	5.3	8.6	100.2
KY	2	BF	OBS DEATHS	1	6	7	7	9	39
LA	1	WF	RATE/10000	0.4	2.3	4.7	7.6	9.6	98.4
LA	1	WF	OBS DEATHS	10	57	115	147	128	457
LA	1	BF	RATE/10000	0.6	3.9	5.8	8.0	10.5	120.2
LA	1	BF	OBS DEATHS	7	36	48	52	47	190
LA	2	WF	RATE/10000	0.3	1.5	3.6	7.5	9.6	87.2
LA	2	WF	OBS DEATHS	8	36	80	132	111	367
LA	2	BF	RATE/10000	0.8	2.1	5.3	7.5	6.8	95.0
LA	2	BF	OBS DEATHS	7	17	37	44	29	134
LA	3	WF	RATE/10000	0.3	1.7	4.3	5.8	6.5	75.7
LA	3	WF	OBS DEATHS	6	31	80	93	74	284
LA	3	BF	RATE/10000	0.5	3.9	5.8	5.6	7.5	98.7
LA	3	BF	OBS DEATHS	4	30	42	39	44	159
ME	1	WF	RATE/10000	0.4	1.7	4.2	7.5	9.5	92.1
ME	1	WF	OBS DEATHS	10	43	106	167	164	490
ME	1	BF	RATE/10000	0.0	20.4	0.0	0.0	0.0	158.0
ME	1	BF	OBS DEATHS	0	1	0	0	0	1
MD	1	WF	RATE/10000	0.0	1.2	4.5	7.4	11.0	92.8
MD	1	WF	OBS DEATHS	0	9	36	49	51	145
MD	1	BF	RATE/10000	0.0	0.0	5.5	19.1	0.0	104.0
MD	1	BF	OBS DEATHS	0	0	1	3	0	4
MD	2	WF	RATE/10000	0.5	2.2	6.3	7.8	10.7	111.6
MD	2	WF	OBS DEATHS	7	34	97	72	56	266
MD	2	BF	RATE/10000	1.2	4.5	6.5	7.6	27.3	167.4
MD	2	BF	OBS DEATHS	1	3	3	2	4	13

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR				25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX								25-74
MD	3	WF	RATE/10000	0.3	2.1	4.8	6.7	7.6	89.4
MD	3	WF	OBS DEATHS	7	35	75	61	38	216
MD	3	BF	RATE/10000	0.2	1.7	4.9	11.2	5.1	91.5
MD	3	BF	OBS DEATHS	1	5	9	12	3	30
MD	4	WF	RATE/10000	0.4	2.1	5.1	8.3	9.6	102.5
MD	4	WF	OBS DEATHS	18	91	240	289	232	879
MD	4	BF	RATE/10000	0.5	2.5	6.3	7.3	6.9	101.9
MD	4	BF	OBS DEATHS	7	34	75	59	34	209
MD	5	WF	RATE/10000	0.4	2.3	4.3	6.8	9.1	91.2
MD	5	WF	OBS DEATHS	2	12	24	33	34	105
MD	5	BF	RATE/10000	0.7	2.8	4.2	4.4	7.7	82.4
MD	5	BF	OBS DEATHS	1	4	6	5	6	22
MA	1	WF	RATE/10000	0.4	2.6	4.7	9.3	10.0	107.6
MA	1	WF	OBS DEATHS	8	49	104	165	133	459
MA	1	BF	RATE/10000	1.1	2.8	2.1	9.5	5.1	90.3
MA	1	BF	OBS DEATHS	1	2	1	3	1	8
MA	2	WF	RATE/10000	0.5	1.7	6.0	8.1	9.3	103.9
MA	2	WF	OBS DEATHS	9	27	110	122	104	371
MA	2	BF	RATE/10000	6.0	0.0	25.1	0.0	22.0	231.9
MA	2	BF	OBS DEATHS	1	0	2	0	1	4
MA	3	WF	RATE/10000	0.4	2.0	6.5	9.2	10.7	116.0
MA	3	WF	OBS DEATHS	24	108	358	420	369	1279
MA	3	BF	RATE/10000	0.0	0.0	10.8	5.8	20.9	138.4
MA	3	BF	OBS DEATHS	0	0	6	2	5	13
MA	4	WF	RATE/10000	0.4	2.2	6.2	9.7	11.6	120.3
MA	4	WF	OBS DEATHS	13	67	296	301	288	875
MA	4	BF	RATE/10000	0.5	2.8	5.8	8.0	9.9	109.4
MA	4	BF	OBS DEATHS	2	8	13	11	9	43
MA	5	WF	RATE/10000	0.2	1.9	6.7	7.9	10.0	107.6
MA	5	WF	OBS DEATHS	4	42	163	161	161	531
MA	5	BF	RATE/10000	2.8	0.0	0.0	17.0	0.0	82.2
MA	5	BF	OBS DEATHS	1	0	0	3	0	4

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
MI	1	WF	RATE/10000	0.3	2.3	5.3	8.4	10.1	105.9
MI	1	WF	OBS DEATHS	38	241	594	666	528	2067
MI	1	BF	RATE/10000	0.4	2.1	6.3	9.2	9.8	112.8
MI	1	BF	OBS DEATHS	9	46	124	119	74	372
MI	2	WF	RATE/10000	0.2	1.6	5.7	6.9	11.2	100.3
MI	2	WF	OBS DEATHS	4	23	83	75	93	268
MI	2	BF	RATE/10000	0.0	4.0	2.8	0.0	6.7	59.6
MI	2	BF	OBS DEATHS	0	2	1	0	1	4
MI	3	WF	RATE/10000	0.2	2.0	3.7	8.7	11.9	100.8
MI	3	WF	OBS DEATHS	3	34	65	120	111	333
MI	3	BF	RATE/10000	0.0	1.7	5.1	2.5	10.6	76.9
MI	3	BF	OBS DEATHS	0	2	5	2	6	15
MI	4	WF	RATE/10000	0.3	1.1	4.0	8.3	9.7	91.3
MI	4	WF	OBS DEATHS	7	25	93	151	125	401
MI	4	BF	RATE/10000	0.9	0.9	5.7	0.0	11.8	73.6
MI	4	BF	OBS DEATHS	1	1	5	0	5	12
MI	5	WF	RATE/10000	0.6	2.2	4.4	9.0	10.7	106.2
MI	5	WF	OBS DEATHS	9	30	53	78	60	230
MI	5	BF	RATE/10000	0.5	3.1	1.9	4.8	6.0	71.7
MI	5	BF	OBS DEATHS	1	5	2	3	2	13
MI	6	WF	RATE/10000	0.4	1.4	5.5	8.3	7.6	95.1
MI	6	WF	OBS DEATHS	8	22	89	107	64	290
MI	6	BF	RATE/10000	0.0	4.0	0.0	6.2	5.5	67.5
MI	6	BF	OBS DEATHS	0	3	0	2	1	6
MI	7	WF	RATE/10000	0.2	2.2	5.4	7.3	10.7	101.8
MI	7	WF	OBS DEATHS	1	13	34	45	45	138
MI	7	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
MI	7	BF	OBS DEATHS	0	0	0	0	0	0
MI	8	WF	RATE/10000	0.2	2.8	4.5	7.7	9.0	96.4
MI	8	WF	OBS DEATHS	1	19	35	56	45	156
MI	8	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
MI	8	BF	OBS DEATHS	0	0	0	0	0	0

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72--Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
MN	2	WF	RATE/10000	0.1	2.0	5.1	8.3	10.2	102.8
MN	2	WF	OBS DEATHS	1	21	62	94	81	259
MN	2	BF	RATE/10000	0.0	0.0	0.0	0.0	130.7	374.1
MN	2	BF	OBS DEATHS	0	0	0	0	1	1
MN	4	WF	RATE/10000	0.5	1.7	5.7	7.5	9.1	98.5
MN	4	WF	OBS DEATHS	4	13	46	57	55	175
MN	4	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
MN	4	BF	OBS DEATHS	0	0	0	0	0	0
MN	5	WF	RATE/10000	0.4	1.8	5.4	7.5	10.4	101.0
MN	5	WF	OBS DEATHS	21	80	230	251	264	846
MN	5	BF	RATE/10000	0.0	6.5	1.6	4.7	3.5	80.1
MN	5	BF	OBS DEATHS	0	5	1	2	1	9
MN	6	WF	RATE/10000	0.4	1.5	5.2	9.1	12.1	112.1
MN	6	WF	OBS DEATHS	4	18	68	109	117	316
MN	6	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
MN	6	BF	OBS DEATHS	0	0	0	0	0	0
MN	7	WF	RATE/10000	0.4	1.2	5.0	7.2	7.2	84.9
MN	7	WF	OBS DEATHS	4	11	45	58	46	164
MN	7	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
MN	7	BF	OBS DEATHS	0	0	0	0	0	0
MS	1	WF	RATE/10000	0.4	1.9	4.7	6.2	7.9	85.1
MS	1	WF	OBS DEATHS	17	70	168	201	180	636
MS	1	BF	RATE/10000	0.3	2.7	4.9	5.1	7.3	84.3
MS	1	BF	OBS DEATHS	5	44	79	81	92	301
MO	1	WF	RATE/10000	0.3	1.6	4.9	6.7	9.1	89.5
MO	1	WF	OBS DEATHS	9	51	154	161	159	534
MO	1	BF	RATE/10000	0.7	1.7	6.1	5.9	8.2	94.4
MO	1	BF	OBS DEATHS	3	7	22	16	17	65
MO	2	WF	RATE/10000	0.4	1.7	3.8	6.5	8.5	83.4
MO	2	WF	OBS DEATHS	9	38	93	164	181	485
MO	2	BF	RATE/10000	0.0	1.5	6.1	12.5	10.9	129.0
MO	2	BF	OBS DEATHS	0	1	4	8	6	19

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR NAME -SEX		25-34	35-44	45-54	55-64	65-74	(SMR) 25-74	
MO	3 WF	RATE/10000	0.4	2.1	4.6	8.2	9.5	98.6
MO	3 WF	OBS DEATHS	23	113	254	384	323	1094
MO	3 BF	RATE/10000	0.9	2.7	5.4	8.0	8.8	108.5
MO	3 BF	OBS DEATHS	10	28	47	57	43	185
MO	4 WF	RATE/10000	0.6	1.7	4.7	5.8	8.0	83.0
MO	4 WF	OBS DEATHS	7	21	63	79	85	255
MO	4 BF	RATE/10000	0.0	0.0	0.0	11.6	46.0	209.0
MO	4 BF	OBS DEATHS	3	0	0	1	3	4
MO	5 WF	RATE/10000	0.4	2.3	4.8	6.7	6.3	83.1
MO	5 WF	OBS DEATHS	4	23	54	75	53	209
MO	5 BF	RATE/10000	2.2	0.0	0.0	7.8	6.8	70.7
MO	5 BF	OBS DEATHS	1	0	0	4	3	8
MT	1 WF	RATE/10000	0.3	1.8	4.7	7.6	10.0	96.3
MT	1 WF	OBS DEATHS	6	30	79	104	89	308
MT	1 BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
MT	1 BF	OBS DEATHS	3	0	0	0	0	0
NE	1 WF	RATE/10000	0.1	2.4	3.6	7.6	10.3	95.3
NE	1 WF	OBS DEATHS	2	35	54	112	125	328
NE	1 BF	RATE/10000	0.0	0.0	0.0	61.7	0.0	295.1
NE	1 BF	OBS DEATHS	3	0	0	1	0	1
NE	2 WF	RATE/10000	0.2	1.7	3.5	8.4	9.3	91.9
NE	2 WF	OBS DEATHS	2	14	30	69	64	179
NE	2 BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
NE	2 BF	OBS DEATHS	0	0	0	0	0	0
NE	3 WF	RATE/10000	0.3	1.7	5.5	8.0	11.7	106.5
NE	3 WF	OBS DEATHS	5	27	84	101	116	333
NE	3 BF	RATE/10000	0.0	2.1	3.0	18.1	5.5	113.3
NE	3 BF	OBS DEATHS	3	2	2	9	2	15
NV	1 WF	RATE/10000	0.3	1.3	4.5	6.8	11.1	90.7
NV	1 WF	OBS DEATHS	2	7	26	29	26	90
NV	1 BF	RATE/10000	0.0	0.0	0.0	36.1	0.0	159.6
NV	1 BF	OBS DEATHS	0	0	0	2	0	2

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR				25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX								25-74
NV	2	WF	RATE/10000	0.0	1.6	5.4	6.1	10.6	90.5
NV	2	WF	OBS DEATHS	0	11	35	26	22	94
NV	2	BF	RATE/10000	0.0	0.0	5.2	8.4	23.1	101.5
NV	2	BF	OBS DEATHS	0	0	2	2	3	7
NH	1	WF	RATE/10000	0.3	1.9	4.9	8.5	10.4	103.4
NH	1	WF	OBS DEATHS	6	35	92	136	126	395
NH	1	BF	RATE/10000	0.0	0.0	0.0	57.0	0.0	184.6
NH	1	BF	OBS DEATHS	0	0	0	1	0	1
NJ	1	WF	RATE/10000	0.5	2.3	6.4	9.5	11.0	119.7
NJ	1	WF	OBS DEATHS	16	87	274	307	229	913
NJ	1	BF	RATE/10000	0.7	2.7	6.1	9.0	7.9	112.2
NJ	1	BF	OBS DEATHS	2	6	10	10	5	33
NJ	2	WF	RATE/10000	0.6	2.2	6.1	9.3	12.5	121.6
NJ	2	WF	OBS DEATHS	25	103	325	397	363	1213
NJ	2	BF	RATE/10000	0.5	2.2	4.6	8.2	8.4	95.6
NJ	2	BF	OBS DEATHS	6	23	36	43	26	134
NJ	3	WF	RATE/10000	0.5	2.2	6.3	10.4	12.0	125.9
NJ	3	WF	OBS DEATHS	7	33	114	166	133	453
NJ	3	BF	RATE/10000	0.9	2.3	3.2	6.0	8.5	85.8
NJ	3	BF	OBS DEATHS	2	4	4	5	4	19
NJ	4	WF	RATE/10000	0.4	2.4	6.1	10.3	11.0	121.1
NJ	4	WF	OBS DEATHS	19	114	293	362	283	1071
NJ	4	BF	RATE/10000	0.2	1.6	6.0	6.5	8.7	92.4
NJ	4	BF	OBS DEATHS	1	6	17	12	10	46
NJ	5	WF	RATE/10000	0.5	2.5	5.6	7.9	10.4	107.6
NJ	5	WF	OBS DEATHS	17	82	194	206	200	699
NJ	5	BF	RATE/10000	0.4	3.1	5.9	8.9	9.9	116.9
NJ	5	BF	OBS DEATHS	2	13	21	23	18	77
NM	1	WF	RATE/10000	0.3	1.6	4.6	7.2	5.7	81.9
NM	1	WF	OBS DEATHS	8	40	102	120	58	328
NM	1	BF	RATE/10000	1.9	0.0	0.0	11.6	22.0	112.5
NM	1	BF	OBS DEATHS	1	0	0	3	3	7

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR NAME -SEX				25-34	35-44	45-54	55-64	65-74	(SMR) 25-74
NY	1	WF	RATE/10000	0.5	2.4	5.9	9.1	10.7	114.8
NY	1	WF	OBS DEATHS	21	102	282	347	293	1045
NY	1	BF	RATE/10000	0.9	4.9	4.3	4.8	12.4	114.5
NY	1	BF	OBS DEATHS	3	17	11	8	12	51
NY	2	WF	RATE/10000	0.2	2.0	5.7	8.9	11.7	112.1
NY	2	WF	OBS DEATHS	5	57	175	219	210	666
NY	2	BF	RATE/10000	0.5	1.3	5.0	8.6	3.0	80.0
NY	2	BF	OBS DEATHS	1	2	5	5	1	14
NY	3	WF	RATE/10000	0.3	2.2	5.8	8.6	10.8	110.7
NY	3	WF	OBS DEATHS	12	73	212	248	227	772
NY	3	BF	RATE/10000	0.0	4.7	7.1	5.5	9.8	118.4
NY	3	BF	OBS DEATHS	2	4	4	2	2	12
NY	4	WF	RATE/10000	0.5	1.7	5.5	7.6	11.4	105.7
NY	4	WF	OBS DEATHS	6	18	61	68	75	228
NY	4	BF	RATE/10000	0.0	16.0	21.8	0.0	39.0	307.6
NY	4	BF	OBS DEATHS	0	1	1	0	1	3
NY	5	WF	RATE/10000	0.2	2.0	6.3	8.9	11.5	115.5
NY	5	WF	OBS DEATHS	7	62	222	273	264	828
NY	5	BF	RATE/10000	0.0	2.6	3.4	2.3	7.2	63.7
NY	5	BF	OBS DEATHS	0	2	2	1	2	7
NY	6	WF	RATE/10000	0.4	2.4	6.5	9.7	12.9	126.5
NY	6	WF	OBS DEATHS	20	116	302	387	361	1186
NY	6	BF	RATE/10000	0.2	1.7	5.2	6.6	9.3	91.0
NY	6	BF	OBS DEATHS	1	7	18	17	14	57
NY	7	WF	RATE/10000	0.3	2.7	7.1	10.0	11.3	126.6
NY	7	WF	OBS DEATHS	54	425	1331	1912	1649	5371
NY	7	BF	RATE/10000	0.5	2.3	5.9	8.1	9.2	105.8
NY	7	BF	OBS DEATHS	32	124	254	233	154	797
NY	8	WF	RATE/10000	0.5	2.9	6.7	10.9	13.0	135.1
NY	8	WF	OBS DEATHS	29	221	487	498	404	1639
NY	8	BF	RATE/10000	0.9	2.8	4.7	5.3	8.9	95.4
NY	8	BF	OBS DEATHS	4	11	14	10	9	48

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR				25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX								25-74
NC	1	WF	RATE/10000	0.3	1.5	3.6	6.1	7.4	75.5
NC	1	WF	OBS DEATHS	8	32	79	115	95	329
NC	1	BF	RATE/10000	0.0	3.4	3.4	6.6	8.9	90.6
NC	1	BF	OBS DEATHS	0	5	5	8	8	26
NC	2	WF	RATE/10000	0.4	1.5	3.9	7.4	7.8	83.9
NC	2	WF	OBS DEATHS	10	36	89	131	90	356
NC	2	BF	RATE/10000	0.2	3.0	5.3	5.5	7.5	89.9
NC	2	BF	OBS DEATHS	1	13	21	18	16	69
NC	3	WF	RATE/10000	0.2	1.8	4.4	6.3	7.3	81.1
NC	3	WF	OBS DEATHS	4	37	89	99	72	301
NC	3	BF	RATE/10000	1.4	2.3	4.7	6.8	7.3	95.8
NC	3	BF	OBS DEATHS	6	9	17	19	13	64
NC	4	WF	RATE/10000	0.2	1.9	5.4	6.8	7.0	88.2
NC	4	WF	OBS DEATHS	3	25	69	68	47	212
NC	4	BF	RATE/10000	0.2	2.2	4.9	6.2	7.8	87.9
NC	4	BF	OBS DEATHS	1	10	22	22	19	74
NC	5	WF	RATE/10000	0.2	1.7	3.5	5.6	5.5	68.4
NC	5	WF	OBS DEATHS	3	23	44	55	35	160
NC	5	BF	RATE/10000	0.8	2.7	4.5	8.3	4.5	91.5
NC	5	BF	OBS DEATHS	4	13	21	31	11	80
NC	6	WF	RATE/10000	0.2	1.7	4.9	6.3	8.0	84.9
NC	6	WF	OBS DEATHS	4	26	75	79	66	250
NC	6	BF	RATE/10000	0.7	2.9	4.9	5.7	8.0	92.8
NC	6	BF	OBS DEATHS	5	23	37	35	32	132
ND	1	WF	RATE/10000	0.0	1.5	6.1	8.2	6.3	93.1
ND	1	WF	OBS DEATHS	0	10	39	47	22	118
ND	1	BF	RATE/10000	0.0	39.7	0.0	0.0	0.0	668.4
ND	1	BF	OBS DEATHS	0	1	0	0	0	1
ND	2	WF	RATE/10000	0.0	1.5	4.2	6.9	8.0	82.1
ND	2	WF	OBS DEATHS	0	9	27	42	38	116
ND	2	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
ND	2	BF	OBS DEATHS	0	0	0	0	0	0

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
ND	3	WF	RATE/10000	0.0	1.6	5.8	8.4	8.8	99.0
ND	3	WF	OBS DEATHS	0	14	53	73	59	199
ND	3	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
ND	3	BF	OBS DEATHS	0	0	0	0	0	0
CH	1	WF	RATE/10000	0.3	2.3	5.8	9.8	11.0	116.9
OH	1	WF	OBS DEATHS	14	92	228	319	259	912
OH	1	BF	RATE/10000	0.7	2.2	5.6	7.8	8.0	101.4
CH	1	BF	OBS DEATHS	3	10	24	26	18	81
OH	2	WF	RATE/10000	0.5	2.4	4.8	7.2	10.5	100.7
OH	2	WF	OBS DEATHS	15	65	132	140	138	490
OH	2	BF	RATE/10000	0.3	4.3	6.3	7.8	11.2	124.0
CH	2	BF	OBS DEATHS	1	13	17	14	12	57
OH	3	WF	RATE/10000	0.6	1.4	6.1	6.0	7.6	89.2
CH	3	WF	OBS DEATHS	6	13	60	47	46	172
OH	3	BF	RATE/10000	0.0	0.0	9.2	0.0	11.6	79.7
OH	3	BF	OBS DEATHS	0	0	2	0	1	3
OH	4	WF	RATE/10000	0.4	1.8	5.7	8.1	9.8	103.9
OH	4	WF	OBS DEATHS	10	42	140	159	141	492
OH	4	BF	RATE/10000	1.1	2.9	2.1	7.0	11.8	96.3
OH	4	BF	OBS DEATHS	2	5	3	7	8	25
OH	5	WF	RATE/10000	0.4	2.0	5.2	7.8	9.4	99.6
OH	5	WF	OBS DEATHS	17	72	176	208	177	650
CH	5	BF	RATE/10000	0.6	2.2	6.1	10.1	11.9	122.3
OH	5	BF	OBS DEATHS	2	7	16	20	15	60
OH	6	WF	RATE/10000	0.5	1.8	4.4	8.2	8.5	94.3
OH	6	WF	OBS DEATHS	8	31	81	126	96	342
CH	6	BF	RATE/10000	0.0	0.0	4.7	14.3	19.1	146.0
OH	6	BF	OBS DEATHS	0	0	2	5	5	12
CH	7	WF	RATE/10000	0.4	1.7	5.1	8.5	9.5	100.8
OH	7	WF	OBS DEATHS	9	35	107	136	108	395
OH	7	BF	RATE/10000	0.0	1.2	5.4	3.9	2.9	60.7
OH	7	BF	OBS DEATHS	0	1	4	2	1	8

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
OH	8	WF	RATE/10000	0.4	1.6	4.5	8.9	9.7	99.2
OH	8	WF	OBS DEATHS	7	27	78	113	85	310
OH	8	BF	RATE/10000	0.0	2.1	4.5	7.0	5.4	80.0
OH	8	BF	OBS DEATHS	0	3	6	6	3	18
OH	9	WF	RATE/10000	0.2	2.1	6.1	8.7	11.6	114.2
OH	9	WF	OBS DEATHS	13	109	362	398	345	1227
OH	9	BF	RATE/10000	0.3	1.9	6.3	7.3	10.6	104.8
OH	9	BF	OBS DEATHS	3	21	55	41	38	158
OH	10	WF	RATE/10000	0.3	2.7	5.8	7.7	10.6	108.7
OH	10	WF	OBS DEATHS	5	50	121	118	107	401
OH	10	BF	RATE/10000	1.4	0.6	6.5	10.5	9.9	115.0
OH	10	BF	OBS DEATHS	2	1	9	10	7	29
OK	1	WF	RATE/10000	0.3	1.7	4.0	6.2	7.5	79.2
OK	1	WF	OBS DEATHS	21	103	239	342	314	1019
OK	1	BF	RATE/10000	0.2	1.8	6.8	5.8	9.8	100.2
OK	1	BF	OBS DEATHS	1	7	24	20	27	79
OR	1	WF	RATE/10000	0.3	1.9	4.7	7.5	9.4	95.3
OR	1	WF	OBS DEATHS	9	44	119	163	146	481
OR	1	BF	RATE/10000	1.6	1.9	3.6	7.8	15.9	110.8
OR	1	BF	OBS DEATHS	1	1	2	3	3	10
OR	2	WF	RATE/10000	0.2	1.6	4.6	7.5	8.1	88.4
OR	2	WF	OBS DEATHS	5	33	101	140	106	385
OR	2	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
OR	2	BF	OBS DEATHS	0	0	0	0	0	0
OR	3	WF	RATE/10000	0.3	0.9	3.5	5.9	8.7	74.1
OR	3	WF	OBS DEATHS	2	6	25	37	34	104
OR	3	BF	RATE/10000	0.0	0.0	49.4	0.0	0.0	315.6
OR	3	BF	OBS DEATHS	0	0	1	0	0	1
PA	1	WF	RATE/10000	0.3	2.6	5.9	8.4	10.4	111.4
PA	1	WF	OBS DEATHS	28	218	564	658	583	2051
PA	1	BF	RATE/10000	0.5	2.7	6.6	7.8	7.2	106.8
PA	1	BF	OBS DEATHS	11	60	133	111	66	381

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR				25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX								25-74
PA	2	WF	RATE/10000	0.4	1.6	5.9	8.0	9.6	102.5
PA	2	WF	OBS DEATHS	8	39	157	176	148	528
PA	2	BF	RATE/10000	0.0	3.0	3.7	10.2	0.0	82.6
PA	2	BF	OBS DEATHS	0	1	1	2	0	4
PA	3	WF	RATE/10000	0.6	2.8	5.5	8.2	9.0	105.2
PA	3	WF	OBS DEATHS	11	61	147	203	159	581
PA	3	BF	RATE/10000	0.0	0.0	0.0	21.6	0.0	81.3
PA	3	BF	OBS DEATHS	0	0	0	1	0	1
PA	4	WF	RATE/10000	0.3	1.9	5.3	9.0	10.9	108.6
PA	4	WF	OBS DEATHS	11	62	182	249	214	718
PA	4	BF	RATE/10000	0.8	2.8	7.0	5.4	4.1	93.4
PA	4	BF	OBS DEATHS	1	3	7	4	2	17
PA	5	WF	RATE/10000	0.2	1.4	6.0	8.5	9.2	102.3
PA	5	WF	OBS DEATHS	4	25	115	138	108	390
PA	5	BF	RATE/10000	0.0	0.0	17.2	114.5	0.0	527.7
PA	5	BF	OBS DEATHS	0	0	1	5	0	6
PA	6	WF	RATE/10000	0.4	2.4	5.5	8.6	10.5	109.3
PA	6	WF	OBS DEATHS	26	185	497	609	490	1807
PA	6	BF	RATE/10000	1.1	3.5	8.1	7.7	9.0	126.5
PA	6	BF	OBS DEATHS	5	18	40	29	26	118
PA	7	WF	RATE/10000	0.4	2.3	6.2	8.0	11.3	113.0
PA	7	WF	OBS DEATHS	8	43	130	133	130	444
PA	7	BF	RATE/10000	2.5	2.3	3.0	21.6	21.1	185.1
PA	7	BF	OBS DEATHS	1	1	1	5	3	11
PA	9	WF	RATE/10000	0.2	2.0	5.2	6.8	8.7	92.0
PA	9	WF	OBS DEATHS	2	25	77	85	76	265
PA	9	BF	RATE/10000	9.2	0.0	0.0	0.0	0.0	38.3
PA	9	BF	OBS DEATHS	1	0	0	0	0	1
RI	1	WF	RATE/10000	0.4	2.2	5.5	9.4	11.7	116.1
RI	1	WF	OBS DEATHS	9	51	147	212	195	614
RI	1	BF	RATE/10000	1.3	1.5	5.9	9.0	12.8	120.0
RI	1	BF	OBS DEATHS	1	1	3	3	3	11

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
SC	1	WF	RATE/10000	0.3	1.8	4.5	8.3	8.7	94.3
SC	1	WF	OBS DEATHS	6	28	71	105	71	281
SC	1	BF	RATE/10000	1.2	1.4	8.0	5.8	7.2	102.5
SC	1	BF	OBS DEATHS	4	4	22	13	11	54
SC	2	WF	RATE/10000	0.3	1.3	4.6	6.7	7.3	81.3
SC	2	WF	OBS DEATHS	4	18	63	72	49	206
SC	2	BF	RATE/10000	0.2	1.7	6.1	7.8	4.4	87.1
SC	2	BF	OBS DEATHS	1	8	27	27	11	74
SC	3	WF	RATE/10000	0.1	1.9	4.5	8.6	7.1	90.6
SC	3	WF	OBS DEATHS	1	16	36	55	29	137
SC	3	BF	RATE/10000	0.9	2.6	5.5	7.1	3.8	89.2
SC	3	BF	OBS DEATHS	4	13	26	27	12	80
SC	4	WF	RATE/10000	0.3	1.9	4.1	8.5	9.5	95.7
SC	4	WF	OBS DEATHS	3	17	33	51	35	139
SC	4	BF	RATE/10000	0.8	2.9	4.2	5.0	4.7	77.9
SC	4	BF	OBS DEATHS	4	14	20	19	12	69
SD	1	WF	RATE/10000	0.6	2.0	4.7	7.1	8.0	90.1
SD	1	WF	OBS DEATHS	9	30	72	97	87	295
SD	1	BF	RATE/10000	0.0	0.0	0.0	117.0	0.0	314.5
SD	1	BF	OBS DEATHS	0	0	0	1	0	1
TN	1	WF	RATE/10000	0.5	0.9	2.7	5.9	7.4	68.0
TN	1	WF	OBS DEATHS	7	11	32	57	48	155
TN	1	BF	RATE/10000	0.0	0.0	0.0	16.6	11.0	113.7
TN	1	BF	OBS DEATHS	0	0	0	4	2	6
TN	2	WF	RATE/10000	0.3	2.2	4.0	6.8	9.0	88.5
TN	2	WF	OBS DEATHS	6	41	74	102	92	315
TN	2	BF	RATE/10000	1.2	1.2	7.3	5.9	12.3	113.1
TN	2	BF	OBS DEATHS	1	1	7	5	7	21
TN	3	WF	RATE/10000	0.1	2.4	4.1	7.0	7.6	85.3
TN	3	WF	OBS DEATHS	1	30	49	70	52	202
TN	3	BF	RATE/10000	0.7	2.7	5.7	9.2	5.1	101.4
TN	3	BF	OBS DEATHS	1	4	8	12	5	30

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR NAME -SEX				25-34	35-44	45-54	55-64	65-74	(SMR) 25-74
TN	4	WF	RATE/10000	0.3	1.6	4.2	6.1	7.3	78.0
TN	4	WF	OBS DEATHS	9	48	120	150	126	453
TN	4	BF	RATE/10000	1.0	3.1	7.8	7.0	8.7	117.9
TN	4	BF	OBS DEATHS	4	12	28	23	20	87
TN	5	WF	RATE/10000	0.5	1.1	3.5	5.8	5.8	67.1
TN	5	WF	OBS DEATHS	4	9	32	52	40	137
TN	5	BF	RATE/10000	0.0	1.9	7.7	4.2	6.1	84.7
TN	5	BF	OBS DEATHS	0	3	13	7	8	31
TN	6	WF	RATE/10000	0.8	1.6	5.9	9.0	9.8	109.0
TN	6	WF	OBS DEATHS	12	22	79	92	69	273
TN	6	BF	RATE/10000	0.9	3.1	4.5	8.8	8.3	108.1
TN	6	BF	OBS DEATHS	7	22	28	49	33	139
TX	1	WF	RATE/10000	0.6	1.0	4.0	5.2	6.8	70.6
TX	1	WF	OBS DEATHS	5	9	33	37	31	115
TX	1	BF	RATE/10000	3.5	0.0	3.5	15.2	0.0	102.3
TX	1	BF	OBS DEATHS	1	0	1	3	0	5
TX	2	WF	RATE/10000	0.2	1.1	5.4	4.6	5.0	68.1
TX	2	WF	OBS DEATHS	2	8	38	28	19	95
TX	2	BF	RATE/10000	0.0	0.0	2.6	3.2	0.0	26.9
TX	2	BF	OBS DEATHS	0	0	1	1	0	2
TX	3	WF	RATE/10000	0.4	2.4	4.5	7.3	9.9	98.6
TX	3	WF	OBS DEATHS	4	25	37	40	36	142
TX	3	BF	RATE/10000	0.0	7.3	0.0	11.9	0.0	112.4
TX	3	BF	OBS DEATHS	0	2	0	1	0	3
TX	4	WF	RATE/10000	0.4	1.6	4.7	6.0	7.4	80.3
TX	4	WF	OBS DEATHS	5	23	71	93	93	285
TX	4	BF	RATE/10000	0.0	4.2	6.5	8.8	6.5	111.8
TX	4	BF	OBS DEATHS	0	3	4	5	3	15
TX	5	WF	RATE/10000	0.3	1.6	5.1	6.4	8.1	87.0
TX	5	WF	OBS DEATHS	22	100	297	287	256	962
TX	5	BF	RATE/10000	0.3	2.9	5.4	5.8	8.6	95.4
TX	5	BF	OBS DEATHS	3	26	37	32	32	130

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR NAME -SEX				25-34	35-44	45-54	55-64	65-74	(SMR) 25-74
TX	6	WF	RATE/10000	0.4	1.5	4.1	7.2	7.4	82.9
TX	6	WF	OBS DEATHS	9	29	82	141	113	374
TX	6	BF	RATE/10000	0.3	2.2	5.3	5.0	10.2	94.8
TX	6	BF	OBS DEATHS	1	7	16	16	27	67
TX	7	WF	RATE/10000	0.2	1.4	4.4	5.6	7.3	75.7
TX	7	WF	OBS DEATHS	2	18	62	82	82	246
TX	7	BF	RATE/10000	0.7	1.6	4.2	9.7	8.8	104.8
TX	7	BF	OBS DEATHS	2	5	14	33	25	79
TX	8	WF	RATE/10000	0.3	1.6	4.0	5.6	8.1	77.4
TX	8	WF	OBS DEATHS	8	39	87	104	100	338
TX	8	BF	RATE/10000	0.0	8.0	8.7	8.7	15.1	168.9
TX	8	BF	OBS DEATHS	0	6	7	6	8	27
TX	9	WF	RATE/10000	0.3	1.8	4.3	6.2	8.6	84.4
TX	9	WF	OBS DEATHS	8	48	108	121	123	408
TX	9	BF	RATE/10000	0.6	5.3	4.6	9.6	3.5	108.2
TX	9	BF	OBS DEATHS	1	9	7	12	3	32
TX	10	WF	RATE/10000	0.0	2.5	3.8	5.4	5.7	71.6
TX	10	WF	OBS DEATHS	0	30	44	57	42	173
TX	10	BF	RATE/10000	1.3	1.6	6.2	8.3	8.9	109.9
TX	10	BF	OBS DEATHS	4	5	18	20	16	63
TX	11	WF	RATE/10000	0.4	2.1	4.4	7.2	9.0	92.1
TX	11	WF	OBS DEATHS	25	107	205	241	180	758
TX	11	BF	RATE/10000	0.7	2.6	4.3	6.1	6.9	87.3
TX	11	BF	OBS DEATHS	9	31	40	43	32	155
TX	12	WF	RATE/10000	0.6	1.9	3.9	5.6	6.6	77.4
TX	12	WF	OBS DEATHS	5	17	29	30	19	100
TX	12	BF	RATE/10000	2.3	2.3	0.0	3.7	0.0	46.3
TX	12	BF	OBS DEATHS	1	1	0	1	0	3
UT	1	WF	RATE/10000	0.2	1.8	3.7	7.2	8.2	83.5
UT	1	WF	OBS DEATHS	5	44	83	125	96	353
UT	1	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
UT	1	BF	OBS DEATHS	0	0	0	0	0	0

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR				25-34	35-44	45-54	55-64	65-74	(SMR)
NAME	-SEX								25-74
VT	1	WF	RATE/10000	0.3	1.6	6.4	9.2	18.6	112.7
VT	1	WF	OBS DEATHS	4	17	69	85	76	251
VT	1	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
VT	1	BF	OBS DEATHS	0	0	0	0	0	0
VA	1	WF	RATE/10000	0.4	1.2	5.6	6.1	8.6	87.7
VA	1	WF	OBS DEATHS	5	16	70	66	66	223
VA	1	BF	RATE/10000	1.8	1.8	3.3	3.1	11.8	87.0
VA	1	BF	OBS DEATHS	3	3	5	4	12	27
VA	2	WF	RATE/10000	0.3	2.1	5.2	8.8	11.6	107.6
VA	2	WF	OBS DEATHS	8	55	126	118	77	384
VA	2	BF	RATE/10000	1.2	3.2	4.8	8.5	9.8	115.5
VA	2	BF	OBS DEATHS	2	4	5	6	4	21
VA	3	WF	RATE/10000	0.4	1.6	3.6	5.6	5.8	69.5
VA	3	WF	OBS DEATHS	11	38	87	115	83	334
VA	3	BF	RATE/10000	1.0	5.1	3.2	8.4	8.4	110.6
VA	3	BF	OBS DEATHS	3	15	9	19	14	60
VA	4	WF	RATE/10000	0.3	1.7	5.2	8.8	9.6	102.1
VA	4	WF	OBS DEATHS	6	27	87	119	91	330
VA	4	BF	RATE/10000	0.6	3.6	5.0	5.2	8.5	96.6
VA	4	BF	OBS DEATHS	4	25	33	26	30	118
VA	5	WF	RATE/10000	0.4	1.8	3.8	7.2	8.7	86.2
VA	5	WF	OBS DEATHS	10	40	80	107	87	324
VA	5	BF	RATE/10000	0.5	2.9	6.0	7.6	9.4	109.6
VA	5	BF	OBS DEATHS	4	26	52	46	37	165
WA	1	WF	RATE/10000	0.4	1.9	5.3	7.7	9.0	98.1
WA	1	WF	OBS DEATHS	26	94	282	313	250	965
WA	1	BF	RATE/10000	0.0	4.1	6.0	2.8	16.9	109.9
WA	1	BF	OBS DEATHS	0	6	8	2	6	22
WA	2	WF	RATE/10000	0.1	1.4	4.3	6.1	8.3	80.0
WA	2	WF	OBS DEATHS	1	15	50	59	54	179
WA	2	BF	RATE/10000	0.0	0.0	0.0	69.4	158.7	599.9
WA	2	BF	OBS DEATHS	0	0	0	1	1	2

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR			25-34	35-44	45-54	55-64	65-74	(SMR)	
NAME	-SEX							25-74	
WA	3	WF	RATE/10000	0.1	0.8	5.3	7.6	10.1	93.6
WA	3	WF	OBS DEATHS	1	8	54	63	53	179
WA	3	BF	RATE/10000	0.0	0.0	10.7	12.2	0.0	119.7
WA	3	BF	OBS DEATHS	0	0	1	1	0	2
WA	4	WF	RATE/10000	0.3	1.0	5.6	8.0	10.6	101.0
WA	4	WF	OBS DEATHS	3	10	63	75	72	223
WA	4	BF	RATE/10000	0.0	0.0	0.0	26.1	0.0	90.4
WA	4	BF	OBS DEATHS	0	0	0	1	0	1
WV	1	WF	RATE/10000	0.4	2.0	4.6	6.4	6.4	81.6
WV	1	WF	OBS DEATHS	18	89	219	262	182	770
WV	1	BF	RATE/10000	0.8	0.7	3.9	4.3	5.8	64.4
WV	1	BF	OBS DEATHS	1	1	7	8	9	26
WI	1	WF	RATE/10000	0.4	1.7	4.3	9.1	10.8	103.1
WI	1	WF	OBS DEATHS	9	29	73	130	120	361
WI	1	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
WI	1	BF	OBS DEATHS	0	0	0	0	0	0
WI	2	WF	RATE/10000	0.3	2.0	6.2	9.6	13.2	123.4
WI	2	WF	OBS DEATHS	13	85	270	347	341	1056
WI	2	BF	RATE/10000	0.8	3.7	4.6	3.4	11.0	101.3
WI	2	BF	OBS DEATHS	3	12	9	4	7	35
WI	3	WF	RATE/10000	0.4	1.4	4.2	9.1	9.8	98.1
WI	3	WF	OBS DEATHS	4	14	44	83	68	213
WI	3	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
WI	3	BF	OBS DEATHS	0	0	0	0	0	0
WI	4	WF	RATE/10000	0.1	2.1	5.6	8.1	10.3	104.5
WI	4	WF	OBS DEATHS	1	23	65	84	79	252
WI	4	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
WI	4	BF	OBS DEATHS	0	0	0	0	0	0
WI	5	WF	RATE/10000	0.4	1.7	4.8	7.5	11.3	101.5
WI	5	WF	OBS DEATHS	5	20	61	86	103	275
WI	5	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
WI	5	BF	OBS DEATHS	0	0	0	0	0	0

Number of breast cancer deaths, rates per 10,000 women, and standardized mortality ratio (SMR) by age, race, and health service area (HSA): United States, 1968-72—Con.

HSA COLOR NAME -SEX				25-34	35-44	45-54	55-64	65-74	(SMR) 25-74
WI	6	WF	RATE/10000	0.6	2.0	5.5	8.0	10.6	106.9
WI	6	WF	OBS DEATHS	5	16	47	61	59	188
WI	6	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
WI	6	BF	OBS DEATHS	0	0	0	0	0	0
WY	1	WF	RATE/10000	0.2	2.0	3.8	5.2	8.3	77.2
WY	1	WF	OBS DEATHS	2	17	31	34	35	119
WY	1	BF	RATE/10000	0.0	0.0	0.0	0.0	0.0	0.0
WY	1	BF	OBS DEATHS	0	0	0	0	0	0