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## **BREASTFEEDING TRENDS – 2003**

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### **BACKGROUND**

The Ross Products Division of Abbott Laboratories has been collecting information on infant feeding and breastfeeding in the United States since 1955.<sup>1-8</sup> Current survey design permits an examination of infant feeding patterns during the first 12 months of life. Ryan described increases in the hospital initiation and duration of breastfeeding between 1985 and 1995,<sup>8</sup> and later for the 1996 to 2001<sup>9</sup> time frame. This update complements the published data and provides current breastfeeding information through 2003.

### **METHODOLOGY**

The “Ross Mothers Survey” is as an ongoing mail survey periodically sent to a probability sample of new mothers. Prior to January 1997, mothers received the survey at the time their babies turned six months of age. Since that time, mothers with infants one month of age, two months of age, three months of age and so forth through 12 months of age receive the survey. The survey asks mothers to recall the types of milk their babies received in the hospital, at one week of age, in the last 30 days, and most often in the last week. By using a multiple choice question, mothers select the kinds of milk fed to their infants from a listing that includes breast milk, commercially available infant formulas, and cow milk. The weighting of the results reflects national demographics associated with the geography, race, age, and education of mothers throughout the United States.

## **FINDINGS**

Breastfeeding in the U.S. increased during the 1970s, decreased during the 1980s, and resumed its ascent during the 1990s. For 2003, breastfeeding in the hospital and at six months of age reached 66.0% and 32.8% respectively. The breastfeeding rates of those receiving WIC<sup>®\*</sup> benefits still lagged non-WIC participants by over twenty percentage points in-hospital and at six months of age (APPENDIX 1). APPENDIX 2 contains 2003 breastfeeding rates in-hospital, at six, and at twelve months of age for various demographic characteristics.

Nationally, in-hospital breastfeeding rose 10.1 points over the last ten years (1993-2003). An analysis of breastfeeding in the hospital showed strong gains during this time among segments of the population that historically displayed a reduced propensity toward breastfeeding. These segments included black mothers, mothers with low-birth-weight infants, those receiving WIC benefits, mothers under 24 years of age, and residents of the South Atlantic, New England, and West North Central regions. Conversely, those segments that traditionally produced higher breastfeeding rates showed the smallest incremental increases in breastfeeding over the last ten years, as rates began at a relatively higher level. These segments included residents of the Mountain and Pacific regions, mothers over 30 years of age, and those with a college education (APPENDIX 3).

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### **Groups with the Largest Increase in Hospital Breastfeeding 1993 vs 2003**

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	<b><u>1993</u></b>	<b><u>2003</u></b>	<b><u>Point Change</u></b>
National Average	55.9	66.0	+10.1
Black	30.8	48.3	+17.5
Low Birth Weight (<5 lb 9 oz)	43.1	57.9	+14.8
WIC Participant	41.6	54.9	+13.3
South Atlantic Resident	50.6	63.8	+13.2
New England Resident	57.5	70.6	+13.1
Mother's Age < 20 Years	36.6	49.6	+13.0
West North Central Resident	58.2	70.4	+12.2
Mother's Age 20-24 Years	49.0	61.0	+12.0

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\* WIC is a registered trademark of the U.S. Department of Agriculture and an abbreviation for the Special Supplemental Nutrition Program for Women, Infants and Children.

An examination of breastfeeding rates at six months of age showed a nationwide increase of 13.8 points from 1993 to 2003. The largest increases in breastfeeding during this time frame occurred among non-WIC participants, those with a college education, and New England, West North Central, and Pacific residents. East South Central residents, those without a college education, and mothers less than 20 years of age showed the smallest gains over the last ten years in breastfeeding at six months (APPENDIX 4).

Geographically in 2003, the western states of Alaska, Idaho, Oregon, Montana, Washington, Utah, and Hawaii showed the highest overall rates of breastfeeding (in-hospital and at six months). The states with the lowest overall rates of breastfeeding included Mississippi, Alabama, Louisiana, Kentucky, Arkansas, West Virginia, and Tennessee (APPENDIX 5). These state statistics apply regardless of WIC status (APPENDIX 6).

## **DISCUSSION**

As outlined in the Department of Health and Human Services (HHS) *Blueprint for Action on Breastfeeding*, to increase breastfeeding rates in the United States, breastfeeding needs to be supported by the family, community, workplace, health care sector, and society.<sup>10</sup> The Department of Health and Human Services Healthy People 2010 breastfeeding goals – 75% initiation; 50% duration at six months; and 25% duration at one year – provide a national framework that enables diverse groups to collaborate on effective methods to further promote and support breastfeeding among mothers.<sup>11</sup> There are many challenges to and opportunities for increasing breastfeeding initiation and duration rates. Two approaches that can have a significant impact are focusing national efforts on increasing breastfeeding rates in WIC and addressing the challenges of breastfeeding in the workplace.

It is crucial to focus efforts toward low-income women, whose breastfeeding initiation and duration rates lag far behind the general population. Nearly half (47%) of all infants born annually in the United States participate in the WIC program, and this number continues to grow.<sup>12</sup> Breastfeeding initiation and duration rates among WIC participants have increased dramatically over the past ten years, but they still lag twenty percentage points behind those of non-WIC participants. This statistic holds true even when controlling for socioeconomic status, geography, race/ethnicity, the age of the mother and birth weight of the baby.<sup>9</sup> In other words, it appears something about the WIC program itself is producing an effect that depresses breastfeeding. Further enhancing WIC program incentives to favor breastfeeding could make a significant contribution to increasing breastfeeding among program participants.

The overall rate of breastfeeding in the hospital during 2003 declined by four points versus the previous year (70.1% in 2002 to 66.0% in 2003). These declines occurred predominantly in segments that historically breastfed less and have had a higher participation rate in the WIC program versus the general population: black and Hispanic mothers, mothers under 24 years of age, those with a grade school education, and mothers with low-birth-weight infants (APPENDIX 3). Breastfeeding at six months of age in 2003 witnessed a marginal decline in comparison to 2002 (33.2% in 2002 to 32.8% in 2003). The greatest declines at six months again occurred in demographic groups that typically had higher WIC participation: mothers with a grade school education, Hispanic mothers, and those with low-birth-weight infants.

A review of 2003 breastfeeding rates for infants exclusively receiving breast milk in the hospital provided further insights on the gap between WIC and non-WIC mothers. An examination of in-hospital breastfeeding showed non-WIC mothers exclusively breastfed at a rate 71% greater than WIC mothers (55.2% vs 32.3%). Mothers with a college education exclusively breastfed their infants at a rate 58% higher than mothers without a college education (54.9% vs 34.7%). White mothers exclusively breastfed at a rate more than double of black mothers (52.6% vs 25.5%). Moreover, a gap of at least 2-to-1 existed for these demographic segments for infants six months of age: college vs non-college educated (24.4% vs 12.2%), non-WIC vs WIC (24.6% vs 10.6%) and white vs black mothers (20.4% vs 9.5%) (APPENDIX 7).

Another area where more can be done to support breastfeeding mothers is in the workplace. More than 1.5 million new mothers will return to work before the first birthday of their babies.<sup>13</sup> In 2003, breastfeeding at 6 months was ten percentage points lower for mothers employed full-time versus those employed part-time and was nearly nine percentage points lower versus those not employed. In comparing 2003 to 2002, breastfeeding at 6 months declined one point for full-time working mothers versus less than a point (0.2 point) for mothers working part-time or not employed (APPENDIX 6). Facilitating lactation support programs in the workplace could help increase breastfeeding duration among working mothers.

## **SUMMARY**

While breastfeeding rates increased among all demographic segments of the population over the last ten years, a substantial gap still exists between non-WIC and WIC participants. In addition, when considering breastfeeding duration, full-time employment is associated with decreased breastfeeding rates. Both WIC and the workplace provide opportunities for the development of programs and policies to further promote and support breastfeeding mothers to increase breastfeeding rates.

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## APPENDIX 1

### ROSS PRODUCTS DIVISION - MOTHERS SURVEY BREASTFEEDING RATES <sup>a</sup> IN-HOSPITAL AND AT SIX MONTHS All Infants

	In-Hospital (%)			6 Months (%)		
	<u>Total</u>	<u>Non-WIC</u>	<u>WIC</u>	<u>Total</u>	<u>Non-WIC</u>	<u>WIC</u>
1970	26.5	---	---	---	---	---
1971	24.7	---	---	5.4	---	---
1972	28.1	---	---	5.0	---	---
1973	28.9	---	---	7.5	---	---
1974	32.2	---	---	6.5	---	---
1975	35.5	---	---	14.1	---	---
1976	41.6	---	---	17.0	---	---
1977	44.7	---	---	19.6	---	---
1978	46.6	48.1	34.5	18.9	20.0	9.7
1979	51.0	52.6	37.0	21.3	22.8	11.2
1980	55.3	57.7	40.0	23.2	25.0	13.1
1981	57.6	61.0	39.9	25.1	27.4	13.7
1982	61.9	65.2	45.3	27.1	29.4	16.1
1983	58.4	65.2	38.9	23.3	27.6	11.5
1984	59.7	67.6	39.1	23.8	28.6	11.9
1985	58.0	66.2	40.1	22.1	26.6	11.7
1986	56.9	66.1	38.0	21.6	26.8	10.7
1987	55.5	64.9	37.3	20.2	25.1	10.6
1988	54.3	64.3	35.3	19.5	25.0	9.2
1989	52.2	62.9	34.2	18.1	23.8	8.4
1990	51.5	62.9	33.7	17.6	23.6	8.2
1991	53.3	65.2	36.9	18.2	24.6	9.0
1992	54.2	66.4	38.8	18.9	25.6	10.1
1993	55.9	67.9	41.6	19.0	25.8	10.8
1994	57.4	68.8	44.3	19.7	26.5	11.6
1995	59.7	71.0	46.6	21.6	29.2	12.7
1996	59.2	70.8	46.6	21.7	29.5	12.9
1997	62.4	73.4	50.4	26.0	35.5	16.5
1998	64.3	75.2	56.8	28.6	38.5	18.9
1999	67.2	76.9	56.1	30.7	40.3	19.9
2000	68.4	77.8	56.8	31.4	40.7	20.1
2001	69.5	78.9	58.2	32.5	43.2	20.8
2002	70.1	79.2	58.8	33.2	42.7	22.1
2003	66.0	76.1	54.3	32.8	42.7	21.0

a) Weighting based on Natality Data from U.S. Dept. of Health and Human Svcs.

Breastfeeding rates for 1998 - 2001 based on 1997 Natality Data, 2002-2003 rates based on 2000 Natality Data.

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## APPENDIX 2

### ROSS PRODUCTS DIVISION - MOTHERS SURVEY BREASTFEEDING RATES <sup>a</sup> IN-HOSPITAL, AT SIX MONTHS AND AT 12 MONTHS All Infants and Selected Demographics

	<u>2003 In Hospital</u>	<u>2003 At 6 Months</u>	<u>2003 At 12 Months</u>
<b>All infants</b>	<b>66.0</b>	<b>32.8</b>	<b>19.4</b>
Primiparous	67.6	31.7	18.2
Multiparous	64.3	34.0	20.5
Any Grade School	49.4	22.5	28.2
Any High School	56.2	22.3	14.0
No College	56.0	22.3	14.3
Any College	77.7	44.7	24.9
Employed Full-Time	65.5	26.1	13.5
Employed Part-Tme	68.8	36.6	21.1
Total Employed	66.6	29.5	16.1
Not Employed	64.8	35.0	22.7
Less than 20 years	49.6	16.5	9.1
20-24 years	61.0	24.4	13.9
25-29 years	70.0	35.1	20.2
30-34 years	72.6	41.3	23.2
35+ years	71.0	42.6	27.5
LBW < 5 lb 9 oz	57.9	22.1	12.5
New England	70.6	39.2	20.7
Middle Atlantic	60.6	31.6	18.9
East North Central	63.4	31.3	16.1
West North Central	70.4	34.2	16.9
South Atlantic	63.8	30.1	18.4
East South Central	53.3	21.0	12.2
West South Central	59.9	26.8	14.1
Mountain	77.4	40.2	29.3
Pacific	76.5	42.1	26.9
WIC	54.9	21.5	13.4
Non-WIC	76.6	43.1	25.2
Black	48.3	20.1	12.1
White	70.7	35.9	20.6
Asian	74.1	45.5	25.9
Hispanic	64.0	29.9	19.6

a) Weighting based on Natality Data from U.S. Dept. of Health and Human Svcs.

Breastfeeding rates for 1998 - 2002 based on 1997 Natality Data, 2002-2003 rates based on 2000 Natality Data.

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**APPENDIX 3**

**ROSS PRODUCTS DIVISION - MOTHERS SURVEY  
BREASTFEEDING RATES <sup>a</sup>  
IN-HOSPITAL  
All Infants and Selected Demographics**

	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>Change 2003 vs 1993</u>
<b>All infants</b>	<b>55.9</b>	<b>57.4</b>	<b>59.7</b>	<b>59.2</b>	<b>62.4</b>	<b>64.3</b>	<b>67.2</b>	<b>68.4</b>	<b>69.5</b>	<b>70.1</b>	<b>66.0</b>	<b>10.1</b>
Primiparous	58.7	59.7	61.6	61.0	64.6	66.5	69.6	71.1	72.0	72.5	67.6	8.9
Multiparous	54.3	55.3	57.8	57.4	60.1	62.0	64.5	65.4	66.5	67.3	64.3	10.0
Any Grade School	37.5	38.8	43.8	46.8	47.0	48.4	52.2	54.5	55.1	55.1	49.4	11.9
Any High School	46.0	47.7	49.7	49.2	53.0	55.0	58.5	59.8	61.1	60.7	56.2	10.2
No College	45.7	47.4	49.5	49.1	52.8	54.9	58.4	59.7	61.0	60.5	56.0	10.3
Any College	71.9	72.9	74.4	73.8	76.3	78.2	80.1	81.2	82.1	81.2	77.7	5.8
Employed Full-Time	57.8	58.6	60.7	60.2	61.8	63.3	65.6	66.2	67.6	69.0	65.5	7.7
Employed Part-Time	61.5	62.5	63.5	63.3	64.8	66.3	69.7	70.7	71.5	72.7	68.8	7.3
Total Employed	59.1	59.9	61.7	61.3	62.9	64.4	67.0	67.7	68.8	70.2	66.6	7.5
Not Employed	53.5	55.3	58.0	57.5	60.9	63.1	66.5	68.0	69.0	69.0	64.8	11.3
Less than 20 years	36.6	39.9	42.8	43.3	47.3	50.5	54.4	56.2	57.2	56.2	49.6	13.0
20-24 years	49.0	51.2	52.6	52.7	56.2	58.9	62.9	64.1	65.6	66.0	61.0	12.0
25-29 years	60.2	61.5	63.1	62.2	65.7	67.5	70.6	71.7	72.8	73.4	70.0	9.8
30-34 years	65.9	66.3	68.1	67.5	70.1	71.5	73.9	74.9	75.8	76.4	72.6	6.7
35+ years	67.4	67.7	70.0	69.3	71.1	72.6	74.7	75.3	76.1	74.1	71.0	3.6
LBW < 5 lb 9 oz	43.1	44.3	47.7	48.0	53.2	56.3	60.5	62.5	62.7	63.1	57.9	14.8
New England	57.5	58.4	61.2	60.9	64.2	65.0	68.1	68.8	70.8	73.3	70.6	13.1
Middle Atlantic	50.1	51.9	53.8	53.5	56.5	57.8	61.0	63.0	64.0	65.5	60.6	10.5
East North Central	51.6	52.9	54.6	54.3	57.3	59.2	62.6	63.7	64.6	66.7	63.4	11.8
West North Central	58.2	59.6	61.9	60.8	65.3	66.8	69.4	70.7	72.0	73.1	70.4	12.2
South Atlantic	50.6	52.5	54.8	54.7	58.1	60.5	63.7	64.6	65.7	67.5	63.8	13.2
East South Central	41.4	42.3	44.1	45.1	46.8	49.6	52.5	53.4	54.4	57.0	53.3	11.9
West South Central	49.8	51.9	54.4	53.8	57.0	59.4	62.9	64.3	65.9	64.9	59.9	10.1
Mountain	72.0	73.6	75.1	73.8	77.5	79.1	80.8	81.6	82.8	81.0	77.4	5.4
Pacific	71.6	72.7	75.1	73.9	76.8	78.6	80.7	81.8	82.9	81.5	76.5	4.9
WIC	41.6	44.3	46.6	46.6	50.4	56.8	56.1	56.8	58.2	58.8	54.9	13.3
Non-WIC	67.9	68.8	71.0	70.8	73.4	75.2	76.9	77.8	78.9	79.2	76.6	8.7
Black	30.8	33.2	37.0	37.1	41.3	44.9	50.0	50.8	52.9	53.9	48.3	17.5
White	61.1	62.3	64.3	63.8	66.5	67.9	70.2	71.5	72.2	73.4	70.7	9.6
Asian	N/A	N/A	N/A	N/A	N/A	76.9	80.0	80.9	81.6	80.2	74.1	N/A
Hispanic	55.5	57.8	61.0	60.5	63.6	66.2	69.4	70.8	73.0	70.7	64.0	8.5

a) Weighting based on Natality Data from U.S. Dept. of Health and Human Svcs. Breastfeeding rates for 1998 - 2002 based on 1997 Natality Data, 2002-2003 rates based on 2000 Natality Data.

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**APPENDIX 4**

**ROSS PRODUCTS DIVISION - MOTHERS SURVEY  
BREASTFEEDING RATES <sup>a</sup>  
AT SIX MONTHS  
All Infants and Selected Demographics**

	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>Change 2003 vs 1993</u>
<b>All infants</b>	<b>19.0</b>	<b>19.7</b>	<b>21.6</b>	<b>21.7</b>	<b>26.0</b>	<b>28.6</b>	<b>30.7</b>	<b>31.4</b>	<b>32.5</b>	<b>33.2</b>	<b>32.8</b>	<b>13.8</b>
Primiparous	17.3	17.8	19.5	19.7	24.4	27.1	29.5	30.5	31.9	31.9	31.7	14.4
Multiparous	20.0	21.2	23.6	23.6	27.7	30.1	32.0	32.5	33.3	34.6	34.0	14.0
Any Grade School	13.1	14.6	17.1	17.6	20.9	23.4	29.5	23.8	18.9	27.1	22.5	9.4
Any High School	13.1	13.8	15.0	15.1	18.9	20.9	22.5	23.0	23.9	23.4	22.3	9.2
No College	13.1	13.8	15.0	15.2	19.0	21.0	22.7	23.0	23.8	23.5	22.3	9.2
Any College	28.3	28.9	31.2	31.1	37.1	40.4	42.5	44.1	45.8	44.6	44.7	16.4
Employed Full-Time	11.9	12.6	14.3	14.8	18.1	21.0	22.5	22.8	25.1	27.1	26.1	14.2
Employed Part-Time	21.9	22.3	23.4	23.4	28.3	30.1	32.3	33.4	34.0	36.8	36.6	14.7
Total Employed	15.4	16.1	17.6	17.9	21.9	24.4	26.1	26.6	28.2	30.3	29.5	14.1
Not Employed	21.7	22.5	25.0	24.9	28.9	31.7	34.3	35.4	35.8	35.2	35.0	13.3
Less than 20 years	6.9	7.7	9.1	9.6	12.2	15.6	17.9	18.2	19.5	16.7	16.5	9.6
20-24 years	12.8	13.8	14.6	15.0	18.3	20.8	22.0	23.7	25.5	25.4	24.4	11.6
25-29 years	20.8	21.4	22.9	23.1	28.4	30.4	33.7	33.7	35.1	35.7	35.1	14.3
30-34 years	27.3	27.3	29.0	28.5	34.9	38.5	39.9	40.9	41.8	42.3	41.3	14.0
35+ years	32.0	32.4	33.8	33.9	38.7	41.3	42.8	44.0	43.7	43.1	42.6	10.6
LBW < 5 lb 9 oz	11.1	11.1	12.6	13.1	18.5	19.7	20.3	22.1	22.1	23.8	22.1	11.0
New England	19.6	20.2	22.2	23.1	28.5	28.2	30.8	34.7	37.1	37.0	39.2	19.6
Middle Atlantic	17.6	18.4	19.6	19.8	24.0	26.9	28.8	28.8	30.3	33.2	31.6	14.0
East North Central	17.3	17.4	18.9	19.0	21.4	24.7	28.5	28.1	27.7	28.7	31.3	14.0
West North Central	18.6	18.5	21.4	20.8	26.7	29.6	27.9	30.6	31.7	35.2	34.2	15.6
South Atlantic	15.9	16.9	18.6	18.5	22.9	25.5	26.9	28.7	29.2	31.2	30.1	14.2
East South Central	12.1	12.4	13.0	14.0	15.3	17.3	20.6	20.8	20.3	22.0	21.0	8.9
West South Central	14.4	15.0	17.0	16.6	20.8	22.7	26.9	25.5	26.8	27.3	26.8	12.4
Mountain	27.8	28.9	30.3	30.9	35.8	38.1	38.7	42.8	44.3	40.5	40.2	12.4
Pacific	27.2	28.4	30.9	30.7	36.7	40.0	41.2	41.2	44.2	43.4	42.1	14.9
WIC	10.8	11.6	12.7	12.9	16.5	18.9	19.9	20.1	20.8	22.1	21.5	10.7
Non-WIC	25.8	26.5	29.2	29.5	35.5	38.5	40.3	40.7	43.2	42.7	43.1	17.3
Black	8.6	9.6	11.2	11.3	14.5	18.5	19.9	20.6	21.9	19.2	20.1	11.5
White	21.6	22.1	24.1	24.3	28.6	30.6	32.6	33.8	34.2	36.0	35.9	14.3
Asian	N/A	N/A	N/A	N/A	N/A	42.5	44.0	43.9	46.2	46.2	45.5	N/A
Hispanic	16.4	17.5	19.6	19.5	24.5	28.2	29.2	27.7	32.8	32.7	29.9	13.5

a) Weighting based on Natality Data from U.S. Dept. of Health and Human Svcs. Breastfeeding rates for 1998 - 2002 based on 1997 Natality Data, 2002-2003 rates based on 2000 Natality Data.

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APPENDIX 5

ROSS PRODUCTS DIVISION - MOTHERS SURVEY  
BREASTFEEDING RATES<sup>a</sup>  
IN-HOSPITAL AND AT SIX MONTHS  
All Infants

	1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003	
	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months
<b>TOTAL U.S.</b>	<b>55.9</b>	<b>19.0</b>	<b>57.4</b>	<b>19.7</b>	<b>59.7</b>	<b>21.6</b>	<b>59.2</b>	<b>21.7</b>	<b>62.4</b>	<b>26.0</b>	<b>64.3</b>	<b>28.6</b>	<b>67.2</b>	<b>30.7</b>	<b>68.4</b>	<b>31.4</b>	<b>69.5</b>	<b>32.5</b>	<b>70.1</b>	<b>33.2</b>	<b>66.0</b>	<b>32.8</b>
Alabama	41.9	12.4	42.1	12.3	43.9	12.8	43.9	14.2	44.6	14.8	47.4	16.3	49.8	16.8	49.9	20.0	51.8	22.2	55.1	17.4	52.9	15.7
Alaska	76.7	31.3	83.4	35.8	81.9	36.4	85.9	39.9	82.4	43.4	83.7	41.8	88.2	48.5	88.5	50.2	88.3	50.8	87.4	50.2*	85.7	63.1*
Arizona	70.6	25.1	70.4	25.5	73.1	26.3	70.0	27.6	74.5	29.3	76.8	33.1	77.7	34.8	78.6	36.4	80.1	35.9	78.4	35.3	75.4	34.8
Arkansas	39.6	10.3	44.8	12.9	44.8	13.2	46.0	13.9	49.7	16.5	52.0	19.8	56.8	25.4	58.9	18.3	58.2	17.3	58.2	21.1	57.4	20.4
California	69.5	25.8	70.6	27.1	73.2	29.8	72.0	29.4	75.2	35.0	76.9	38.4	79.1	39.1	80.2	40.1	81.7	43.6	79.7	41.7	73.9	39.8
Colorado	73.9	28.8	76.7	31.2	77.5	30.9	75.4	31.5	79.2	38.2	81.2	39.2	83.3	41.5	83.5	44.4	84.8	48.6	81.7	39.1	77.2	43.9
Connecticut	57.1	19.0	58.7	19.2	61.1	19.7	61.0	22.0	65.5	30.9	64.3	25.7	68.1	27.3	67.8	32.9	69.4	40.0	73.2	28.3	69.4	37.0
D.C.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.5	26.4	53.6	21.8	59.8	15.6	68.2	27.9*	70.7	37.6*	56.5	21.3*
Delaware	57.6	22.0	60.5	19.3	55.6	18.2	56.4	20.9	59.2	25.6	63.6	29.5	63.8	35.5	63.1	32.4	69.1	26.0	67.0	25.6*	69.6	47.8
Florida	56.2	16.6	56.5	17.6	59.6	19.8	57.5	18.9	62.4	26.1	64.1	25.0	66.6	27.1	68.5	29.4	69.6	28.4	70.4	34.4	65.6	30.1
Georgia	44.6	12.7	47.9	14.8	50.8	16.0	52.0	16.7	53.1	20.3	57.5	23.1	62.1	23.3	61.5	25.0	61.9	27.7	64.1	27.7	59.2	27.8
Hawaii	74.2	26.5	76.4	25.9	82.0	33.3	76.0	32.8	81.5	42.7	86.2	43.7	88.0	53.7	86.2	44.2	88.5	43.4	86.7	48.3	82.5	42.7
Idaho	77.0	31.1	78.8	31.7	79.2	33.7	78.2	32.3	82.3	40.1	83.8	48.1	84.9	46.2	86.7	51.6	87.3	46.2	87.6	46.2	84.7	52.7
Illinois	51.7	17.5	53.5	18.3	54.6	18.8	54.4	19.5	56.6	20.8	58.7	24.3	63.8	29.7	64.8	30.8	65.2	28.7	68.0	29.5	60.7	29.6
Indiana	52.6	17.3	53.5	16.8	54.5	17.6	54.1	17.9	58.3	21.0	58.7	21.2	62.0	23.7	63.7	25.9	63.5	25.6	66.4	29.4	64.5	31.7
Iowa	54.5	16.7	57.9	17.6	59.7	18.9	57.8	20.4	61.6	23.9	64.4	29.3	65.3	24.8	67.2	26.7	68.4	29.2	71.7	31.8	67.3	29.9
Kansas	61.7	20.2	65.6	21.7	66.0	23.4	61.6	21.4	69.6	26.8	69.9	26.4	71.5	28.6	73.4	33.7	73.8	28.7	72.2	28.8	70.7	31.5
Kentucky	40.2	11.3	41.6	12.3	41.9	12.0	44.4	12.7	47.4	14.8	50.2	16.7	53.1	19.4	54.2	23.9	54.0	21.7	56.5	25.3	53.9	23.0
Louisiana	32.5	8.6	35.1	9.1	39.6	11.3	38.9	10.8	41.0	13.7	42.7	14.6	47.4	17.2	48.7	17.2	51.1	20.1	51.6	20.1	50.1	19.6
Maine	56.9	19.1	61.0	23.5	61.3	20.7	62.6	24.0	61.7	21.8	68.2	26.2	68.3	38.2	68.0	36.3	73.5	32.5	77.7	52.5	75.2	48.5*
Maryland	55.1	18.5	57.2	20.5	58.3	20.9	60.0	22.4	63.8	26.6	64.8	33.2	69.1	33.7	69.8	35.7	67.8	32.1	70.9	33.2	67.1	34.9
Massachusetts	57.3	19.6	58.0	20.0	60.5	23.0	60.2	22.9	65.4	28.0	65.3	29.4	67.5	32.3	69.2	35.1	70.9	34.9	72.6	38.9	70.6	37.0
Michigan	51.0	16.5	53.2	16.1	53.0	17.9	53.0	18.0	56.8	22.1	59.4	25.4	63.3	29.0	63.1	26.9	64.3	26.5	65.5	28.0	64.5	30.8
Minnesota	67.4	22.3	65.4	19.7	68.1	24.6	67.4	23.5	72.0	29.9	72.5	37.4	75.2	30.9	76.2	37.8	79.1	40.9	79.5	45.1	77.3	41.3
Mississippi	31.2	8.3	33.4	8.2	35.8	9.5	36.6	10.2	38.3	11.1	41.7	13.0	46.8	18.7	48.8	15.4	50.4	18.2	52.4	21.6	45.2	19.3
Missouri	50.1	15.0	52.6	15.9	54.3	18.3	54.2	17.2	58.1	23.0	60.3	23.1	64.0	26.3	65.0	26.7	66.1	24.5	67.8	28.1	63.9	30.3
Montana	73.9	27.9	77.6	31.0	78.6	33.7	78.3	35.2	81.4	37.3	82.9	39.9	83.9	43.8	86.0	40.7	87.1	49.0*	85.8	46.9*	83.6	50.0*
Nebraska	60.9	20.0	62.1	19.7	64.2	21.8	64.2	22.5	68.1	29.7	68.1	30.8	70.0	25.4	72.6	23.5	71.6	31.9	75.8	41.5	73.9	30.6
Nevada	63.8	20.7	66.4	21.3	70.1	24.4	67.2	21.9	70.7	30.5	73.0	31.3	76.2	35.6	75.4	34.1	74.5	39.9	75.1	34.6	71.0	27.1
New Hampshire	61.8	21.3	62.2	21.7	67.6	25.3	64.6	29.1	66.4	36.5	68.6	37.0	73.3	29.0	71.4	39.0	74.7	50.4	78.5	41.0	72.4	46.9*
New Jersey	49.2	16.0	49.2	16.5	53.3	19.1	53.2	19.3	56.6	24.0	57.8	26.5	61.9	28.8	63.2	27.5	65.2	32.1	67.1	31.3	61.9	31.0
New Mexico	68.2	26.0	71.7	28.3	71.3	28.6	72.5	31.8	76.5	33.9	76.7	35.4	78.0	33.6	81.2	46.4	82.7	46.4	79.7	39.0	75.8	34.2
New York	50.6	17.2	53.0	18.4	54.4	19.5	54.5	19.8	57.2	24.4	58.7	27.8	61.6	30.2	64.0	29.6	64.8	31.7	65.8	34.9	59.9	33.4
North Carolina	47.0	15.3	49.0	15.7	51.4	18.1	53.5	18.3	56.5	20.1	58.9	21.0	62.8	28.6	63.7	26.1	65.0	29.8	67.4	29.2	64.2	27.2
North Dakota	59.3	20.9	56.2	18.9	61.9	22.7	63.8	21.7	67.8	28.5	68.5	30.9	68.9	35.7	71.1	21.0	74.0	39.9	68.3	21.7*	75.9	29.9*
Ohio	48.7	16.7	48.9	16.8	52.5	19.1	52.0	18.4	54.7	19.8	56.1	25.3	58.9	28.3	61.0	27.1	62.4	26.2	63.7	26.5	61.6	30.8
Oklahoma	57.1	18.2	58.5	18.0	61.1	19.5	61.8	21.5	62.6	25.7	64.2	21.6	66.4	27.0	67.4	25.7	69.8	26.2	70.7	22.7	68.2	30.1
Oregon	83.1	35.5	82.0	34.9	83.5	35.5	83.3	36.6	85.1	44.4	86.1	47.3	87.8	48.8	88.6	44.6	88.1	46.4	89.1	49.5	86.4	51.0
Pennsylvania	49.9	19.3	51.7	19.6	53.0	20.3	52.0	20.1	55.1	23.2	56.2	25.7	59.2	26.5	61.2	28.5	61.7	26.4	63.7	31.7	60.6	29.2
Rhode Island	50.4	17.6	48.4	15.2	54.2	21.0	54.5	19.1	53.0	24.6	55.8	22.1	62.1	29.4	65.0	21.1	63.2	23.9	65.7	31.3*	65.1	35.7*
South Carolina	42.5	12.7	46.5	14.4	49.9	14.8	47.2	14.3	47.5	14.3	52.1	20.7	54.5	19.2	55.6	22.8	57.7	27.5	58.5	22.5	58.5	29.1
South Dakota	60.5	20.1	64.8	21.6	66.7	23.5	65.4	24.2	65.5	31.9	69.8	29.6	76.0	25.6	73.9	42.0	74.9	39.0	75.6	50.7*	70.3	47.5*
Tennessee	48.4	14.8	48.6	15.1	50.6	16.1	51.5	17.1	53.2	19.1	55.7	21.0	57.7	25.8	58.4	22.2	59.2	19.2	61.4	23.4	57.6	24.5
Texas	54.3	15.8	55.8	16.2	57.8	18.2	56.7	17.5	60.5	22.1	63.1	24.9	66.5	29.2	67.8	28.4	69.4	29.5	67.3	30.0	60.8	28.4
Utah	77.2	36.3	77.6	36.5	78.4	39.1	79.7	39.4	81.5	48.5	82.8	47.0	86.2	45.4	85.9	52.6	86.6	53.9	84.9	50.2	81.7	49.4
Vermont	63.1	23.6	62.4	24.1	68.8	29.0	68.4	25.7	65.7	28.8	69.9	28.3	75.6	29.0	73.3	54.1	79.1	57.0*	77.2	49.3*	76.6	48.4*
Virginia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.8	31.1	64.2	27.8	64.9	33.2	67.0	32.1	70.0	35.8	67.2	33.0
Washington	78.8	31.8	79.8	33.4	81.8	35.4	81.1	35.7	82.6	43.4	84.9	47.2	86.3	49.3	87.9	46.4	87.2	47.1	87.1	49.6	85.6	46.9
West Virginia	45.9	15.3	48.4	16.0	47.7	17.0	50.9	17.8	50.7	18.0	55.5	17.2	55.3	24.0	57.4	25.7	58.1	25.4	61.2	25.7	58.8	22.8
Wisconsin	58.1	20.0	60.0	20.5	62.5	22.1	62.3	22.5	65.0	25.7	67.4											

APPENDIX 6

ROSS PRODUCTS DIVISION - MOTHERS SURVEY  
BREASTFEEDING RATES<sup>a</sup>  
IN-HOSPITAL AND AT SIX MONTHS  
WIC Infants

	1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003	
	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months	In-Hospital	6 Months
<b>Total U.S.</b>	<b>41.6</b>	<b>10.8</b>	<b>44.3</b>	<b>11.6</b>	<b>46.6</b>	<b>12.7</b>	<b>46.6</b>	<b>12.9</b>	<b>50.4</b>	<b>16.5</b>	<b>52.6</b>	<b>18.9</b>	<b>56.1</b>	<b>19.9</b>	<b>56.8</b>	<b>20.1</b>	<b>58.2</b>	<b>20.8</b>	<b>58.8</b>	<b>22.1</b>	<b>54.3</b>	<b>21.0</b>
Alabama	27.2	6.1	29.1	7.6	30.2	6.4	30.2	8.2	30.7	6.4	33.0	6.4	35.7	7.5	35.9	12.4	37.7	10.8	40.7	7.1	37.7	8.2
Alaska	66.5	23.1	78.5	31.8	75.6	27.5	83.1	33.7	78.3	40.2	78.4	33.7	83.8	37.6*	82.8	47.2	84.6	46.2*	82.2	41.7*	81.1	47.3*
Arizona	61.8	16.2	61.5	16.9	64.4	17.1	61.5	18.4	67.4	18.7	69.9	23.0	69.7	22.4	70.1	24.2	73.6	24.6	68.3	18.6	67.5	19.5
Arkansas	29.5	5.1	34.6	8.0	33.4	6.8	35.6	8.0	39.0	8.8	41.2	15.2	44.7	16.4	46.7	9.0	47.3	9.6	44.5	12.0	44.5	10.1
California	57.0	17.0	60.9	18.8	63.7	20.6	63.0	19.4	67.0	24.8	68.9	30.6	71.4	29.3	72.9	28.9	74.4	30.8	73.2	32.0	65.5	30.3
Colorado	61.8	17.9	67.8	21.3	68.1	20.4	62.7	22.3	71.2	29.5	70.8	27.1	74.9	24.2	74.0	32.3	77.2	34.6	71.4	32.4	69.1	21.0
Connecticut	37.6	9.2	41.3	10.1	41.4	8.4	45.2	11.4	50.6	23.6	46.1	10.3	52.1	15.9	51.7	13.1	56.4	25.8	61.3	14.7	51.8	13.7
D.C.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.1	22.6	46.2	21.6	50.7	5.1	54.2	13.4*	59.7	22.2*	38.5	14.3*
Delaware	37.6	11.6	46.9	8.7	42.7	10.0	38.9	12.0	42.3	10.5	49.7	18.3*	51.1	37.2*	45.1	17.9*	52.4	10.9*	53.9	0.0*	48.0	3.4*
Florida	42.6	9.5	44.6	10.3	48.0	11.7	45.4	11.4	51.5	19.1	53.4	16.9	55.8	15.7	56.9	19.4	60.6	19.8	60.9	24.9	56.4	20.0
Georgia	30.1	6.7	34.2	7.5	35.7	7.3	36.3	8.2	38.0	12.2	42.2	11.1	48.3	11.2	47.4	14.7	48.0	16.1	51.1	14.7	45.3	13.9
Hawaii	67.1	19.9	70.5	20.8	74.4	28.2	67.5	25.9	75.7	43.7	80.5	37.6	85.4	54.7	81.6	33.8	83.3	35.6	84.0	48.1*	77.0	53.9*
Idaho	71.4	23.1	77.7	24.2	72.6	21.4	72.2	23.1	77.0	36.4	78.9	40.6	78.4	23.5	82.5	57.8	83.7	35.5*	79.6	31.2*	78.1	40.0*
Illinois	33.8	7.8	36.2	8.2	36.9	8.7	38.6	9.0	40.4	9.2	42.7	11.5	49.6	16.2	48.1	12.0	50.6	11.8	53.8	16.3	47.2	19.0
Indiana	39.3	9.6	40.8	9.2	40.2	8.7	41.9	9.2	45.0	12.1	46.9	12.2	48.6	9.9	50.7	14.7	50.7	13.1	52.2	15.3	47.6	15.1
Iowa	44.1	10.7	46.1	8.8	47.9	9.8	46.9	13.1	50.9	12.0	53.2	16.3	54.7	10.5	55.8	11.2	56.1	21.1	60.9	19.5	56.0	16.1
Kansas	52.5	11.6	56.7	13.9	53.2	14.8	50.4	10.9	58.3	21.8	59.9	19.9	60.3	18.2	61.1	21.5	62.0	15.5	63.4	19.6	60.7	18.5
Kentucky	27.4	5.4	29.3	6.0	29.8	6.3	33.5	7.1	35.5	7.5	39.0	9.7	40.5	9.9	40.8	13.4	40.6	10.2	42.8	11.1	40.0	14.4
Louisiana	20.6	3.7	23.4	4.2	27.0	5.6	27.0	5.1	28.6	7.2	29.0	7.9	34.0	9.5	34.2	9.3	38.1	12.5	37.4	13.7	37.2	11.9
Maine	43.0	10.2	52.8	17.0	50.6	13.8	52.1	15.5	52.5	19.1	57.6	19.0	57.9	28.8	59.3	19.3	59.2	22.6	67.2	45.7*	66.6	30.1*
Maryland	34.8	8.0	36.4	9.3	37.2	10.0	41.9	10.2	48.3	11.7	48.9	17.3	56.8	15.9	53.6	22.7	53.3	20.5	54.6	20.5	54.5	20.4
Massachusetts	47.4	11.4	46.6	11.1	50.0	14.4	49.6	14.3	55.2	23.8	55.2	15.9	58.1	21.7	56.4	29.7	59.3	22.0	61.4	26.4	60.8	26.7
Michigan	37.2	8.6	41.5	8.7	38.5	9.2	39.0	8.8	42.9	12.9	46.4	14.8	50.3	14.9	50.1	17.4	51.6	14.9	51.7	13.8	49.7	14.5
Minnesota	52.8	13.2	54.1	12.3	53.2	14.6	55.1	14.8	60.5	19.9	59.9	21.9	64.5	13.6	64.6	17.9	68.7	21.1	69.3	26.6	65.5	17.5
Mississippi	21.1	4.4	23.8	4.5	26.6	5.4	27.1	6.4	29.3	6.8	32.5	7.0	37.2	15.4	38.3	9.9	41.0	12.2	42.9	16.9	35.6	10.9
Missouri	36.5	8.7	39.1	9.5	43.4	11.0	41.6	9.8	45.3	16.0	49.3	13.0	53.5	14.4	53.7	16.4	55.6	14.2	56.1	16.1	52.5	24.6
Montana	64.5	16.9	73.8	27.2	74.0	28.4	73.4	27.1	76.3	35.7	78.8	34.7	79.7	41.9	82.4	30.4*	87.5	34.4*	83.9	40.7*	79.0	30.2*
Nebraska	47.2	12.0	50.0	12.3	53.6	13.8	54.3	13.3	55.7	19.2	56.6	24.1	61.2	15.5	63.0	16.0	62.1	25.7	65.3	28.9*	67.4	21.7*
Nevada	49.9	14.2	57.6	13.3	61.0	13.1	58.7	15.0	61.2	27.9	63.1	21.3	69.9	20.8	65.9	23.7	66.3	29.0*	63.4	28.8*	59.9	23.0
New Hampshire	49.0	13.1	49.2	11.3	60.2	16.0	50.8	18.5	54.8	20.7	54.4	14.3	61.9	8.8*	55.9	26.1*	59.1	45.0*	61.8	42.9*	53.2	43.1*
New Jersey	33.7	7.4	35.6	9.3	39.4	10.6	38.6	11.7	42.4	11.6	47.1	19.2	49.4	15.2	54.6	19.6	53.6	28.9	56.5	21.0	48.6	27.2
New Mexico	61.3	19.0	64.7	20.4	61.2	19.0	63.7	19.4	68.4	23.8	69.5	29.0	71.0	21.7	72.2	34.3	77.1	35.2	74.4	30.8	68.7	25.8*
New York	42.5	12.8	43.7	13.2	45.1	13.0	46.1	14.8	49.4	16.9	51.3	24.6	54.5	24.7	56.9	22.9	56.9	25.1	58.0	28.9	51.5	29.1
North Carolina	32.7	8.0	33.7	8.3	36.7	9.9	38.9	9.6	41.9	10.1	44.7	8.9	48.6	20.0	50.7	11.2	50.5	19.8	52.7	20.5	50.9	15.0
North Dakota	47.1	14.5	50.4	14.7	54.5	17.0	56.1	16.1	63.5	29.2	61.7	22.8*	64.8	40.7*	64.1	5.9*	68.3	36.3*	56.7	11.6*	71.2	16.3*
Ohio	33.7	8.0	35.4	8.7	37.6	10.1	38.0	10.2	42.4	10.8	41.7	16.4	45.0	16.7	47.1	11.8	49.8	15.0	49.4	15.8	48.4	18.6
Oklahoma	47.0	10.8	48.7	11.0	52.3	11.7	52.8	13.3	54.1	18.1	55.8	14.8	58.3	19.7	57.2	17.4	59.8	14.5	61.3	13.6	58.4	20.8
Oregon	77.5	26.7	77.0	27.2	76.9	27.5	77.5	27.0	81.0	33.6	81.7	36.0	83.9	37.4	85.0	37.9	84.4	33.4	84.9	42.7	81.7	39.6
Pennsylvania	35.6	10.7	37.3	11.1	38.7	11.3	37.9	10.3	41.2	12.8	42.1	14.0	47.3	18.5	47.3	16.8	47.0	13.0	48.7	17.1	47.2	12.9
Rhode Island	32.9	8.3	33.0	7.0	42.9	12.9	41.3	10.3	38.3	10.3	45.3	24.9	50.6	18.4	51.5	8.0	50.1	14.5	55.4	16.1*	54.6	6.4*
South Carolina	28.3	5.6	32.4	8.4	36.5	7.6	34.9	8.7	35.4	9.3	39.2	12.5	41.8	14.1	42.8	12.7	45.7	15.6	44.6	10.0	45.2	15.0
South Dakota	50.6	13.0	58.7	17.2	57.9	16.0	57.4	17.0	56.1	26.9	61.2	15.3	69.7	3.7	68.8	49.8*	70.4	29.0*	69.3	39.7*	61.4	37.5*
Tennessee	34.1	7.4	34.5	7.7	36.3	8.2	39.5	10.4	40.1	9.7	44.1	11.4	45.2	12.7	45.7	11.0	45.0	9.6	47.5	14.3	43.0	14.1
Texas	41.1	9.0	43.4	9.3	46.1	11.1	44.8	10.3	48.8	13.5	51.9	16.0	55.8	19.8	57.1	19.9	58.8	19.9	57.5	21.8	50.6	19.0
Utah	71.6	28.6	72.7	28.7	74.5	28.9	75.7	29.3	78.8	37.1	77.8	31.7	82.4	32.7	81.4	35.2	83.4	48.6	78.4	41.7	76.1	49.9*
Vermont	49.4	12.8	50.3	13.4	59.4	16.7	56.6	14.6	58.6	22.1	57.2	25.2*	63.1	15.2*	65.9	49.4*	72.9	51.5*	64.2	37.1*	67.3	36.1*
Virginia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.8	18.3	46.8	15.3	47.8	20.9	46.4	15.0	51.8	15.0	50.7	16.7
Washington	17.2	23.1	71.6	21.9	76.0	24.1	74.3	24.7	76.2	30.1	78.9	32.9	81.0	34.1	82.1	34.7	82.8	33.0	83.2	35.5	81.0	33.8
West Virginia	36.2	8.8	38.9	9.6	39.1	10.0	41.5	11.2	42.4	10.0	47.3	11.7	46.5	17.0	47.5	18.6	49.6	20.6	51.8	18.1	47.4	11.6*
Wisconsin	43.6	10.6	46.1	13.1	53.1	13.8	49.3	14.7	53.8	15.8	56.2	13.5	53.2	19.9	55.2	12.3	58.7	20.9	63.0	17.1	55.	

APPENDIX 7

ROSS PRODUCTS DIVISION - MOTHERS SURVEY  
BREASTFEEDING RATES <sup>a</sup>  
IN-HOSPITAL, AT SIX MONTHS AND AT 12 MONTHS  
All Infants and Selected Demographics

EXCLUSIVE BREASTFEEDING

	----- In-Hospital -----					----- At 6 Months -----					----- At 12 Months -----				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
<b>All infants</b>	<b>46.3</b>	<b>46.0</b>	<b>46.3</b>	<b>46.1</b>	<b>44.0</b>	<b>15.8</b>	<b>16.0</b>	<b>17.2</b>	<b>17.4</b>	<b>17.9</b>	<b>8.4</b>	<b>9.6</b>	<b>10.4</b>	<b>11.0</b>	<b>10.4</b>
Primiparous	47.0	46.9	47.3	47.1	44.7	15.5	15.9	17.0	16.9	17.0	7.6	9.2	9.7	10.6	10.1
Multiparous	45.5	45.0	45.1	44.9	43.2	16.1	16.2	17.3	17.9	18.9	9.1	10.0	11.1	11.4	10.8
Any Grade School	26.7	28.5	29.9	27.7	26.3	13.5	14.8	13.3	14.8	12.9	11.7	12.9	19.2	15.6	16.5
Any High School	38.6	38.5	39.0	37.2	34.9	11.8	11.5	12.7	12.1	12.2	6.3	7.5	8.1	8.1	7.6
No College	38.3	38.3	38.8	36.9	34.7	11.8	11.6	12.7	12.2	12.2	6.4	7.6	8.3	8.3	7.8
Any College	57.9	57.2	57.3	56.8	54.9	21.5	22.7	24.0	23.5	24.4	11.1	12.2	13.4	14.0	13.5
Employed Full-Time	45.1	44.4	44.7	45.3	43.8	8.7	9.1	10.4	11.8	11.4	3.9	5.1	5.3	5.7	5.9
Employed Part-Time	49.9	49.1	50.2	50.7	48.5	15.0	15.0	16.5	17.6	19.1	7.6	9.9	9.3	10.6	10.9
Total Employed	46.8	46.0	46.6	47.0	45.3	11.0	11.2	12.6	13.7	13.9	5.3	6.8	6.7	7.4	7.6
Not Employed	45.9	46.0	46.1	45.2	42.9	19.7	20.4	21.2	20.5	21.2	11.7	12.5	14.2	14.5	13.4
Less than 20 years	33.9	34.2	34.4	32.2	28.7	9.0	9.3	10.3	9.0	8.7	3.7	6.6	6.4	5.8	4.4
20-24 years	42.2	42.2	43.3	42.4	39.7	11.6	12.3	13.9	13.6	13.0	6.2	6.6	7.4	8.2	7.9
25-29 years	50.0	49.8	49.9	49.8	48.2	17.6	17.5	19.1	19.2	19.7	9.1	10.3	11.3	11.6	10.4
30-34 years	52.6	52.0	51.9	52.2	49.9	20.4	20.2	21.3	22.2	22.6	10.7	11.7	12.1	13.4	13.6
35+ years	52.0	50.6	50.4	48.8	47.2	21.0	22.3	21.8	20.6	23.1	11.6	12.4	14.8	14.1	13.8
LBW < 5 lb 9 oz	26.6	27.6	27.1	27.3	26.6	8.0	10.5	8.4	9.9	10.4	4.5	5.4	5.4	5.7	5.6
New England	52.9	52.2	53.6	54.1	52.1	16.4	17.2	20.6	20.9	21.6	8.6	9.5	11.6	12.5	11.1
Middle Atlantic	38.1	37.9	38.2	38.0	36.2	13.5	13.9	15.7	15.8	16.5	7.3	8.5	8.8	8.4	8.7
East North Central	44.7	44.7	44.6	46.2	44.2	15.1	14.4	14.0	14.4	16.9	6.3	8.5	7.9	9.3	8.5
West North Central	54.8	55.0	56.0	56.3	54.7	13.8	15.0	15.8	18.8	18.1	7.5	8.5	8.9	9.0	9.1
South Atlantic	43.3	42.7	42.8	43.4	42.1	14.2	14.5	15.6	17.2	16.1	7.3	9.5	9.7	9.7	10.1
East South Central	37.3	37.0	36.9	39.0	36.8	11.0	11.0	10.8	11.7	11.2	5.7	5.7	6.6	7.4	6.8
West South Central	41.3	41.0	41.4	39.3	37.0	13.7	13.6	13.9	14.0	14.8	7.0	7.8	8.5	9.1	8.1
Mountain	56.5	56.2	56.4	54.6	52.6	20.6	21.6	23.4	20.7	22.8	12.1	11.8	13.7	14.2	16.0
Pacific	54.2	53.7	54.2	53.1	49.7	21.2	21.7	24.1	23.3	24.1	12.7	13.9	16.0	17.5	15.2
WIC	34.1	33.5	33.9	33.4	32.3	9.4	9.2	10.0	11.1	10.6	5.7	6.4	6.6	7.1	6.9
Non-WIC	56.9	56.1	56.5	56.3	55.2	21.3	21.5	23.5	22.7	24.6	11.0	12.3	13.7	14.1	14.0
Black	26.2	25.8	26.6	27.5	25.5	10.2	8.5	10.7	9.5	9.5	4.2	6.9	6.4	6.2	4.6
White	52.6	52.4	52.8	54.0	52.6	17.2	18.0	18.7	19.7	20.4	9.0	10.1	10.9	12.0	11.5
Asian	45.3	43.3	42.9	42.8	39.0	20.0	19.6	20.0	21.4	23.0	10.6	11.8	13.5	13.5	11.7
Hispanic	35.7	36.1	36.2	37.1	33.1	13.4	13.4	16.2	15.2	15.2	9.4	9.0	12.2	11.0	11.6

a) Weighting based on Natality Data from U.S. Dept. of Health and Human Svcs. Breastfeeding rates for 1998 - 2002 based on 1997 Natality Data, 2002-2003 rates based on 2000 Natality Data.

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