Table of Contents

Introduction ................................................................................................................................. 3
  About Susan G. Komen® ........................................................................................................ 3
  Susan G. Komen Affiliate Network ....................................................................................... 3
  Purpose of the State Community Profile Report ............................................................... 3
Quantitative Data: Measuring Breast Cancer Impact in Local Communities ................... 5
  Quantitative Data..................................................................................................................... 5
  Conclusions: Healthy People 2020 Forecasts ..................................................................... 42
Health Systems Analysis .......................................................................................................... 46
  Health Systems Analysis Data Sources ............................................................................. 46
  Breast Cancer Continuum of Care .................................................................................... 52
  Health Systems Analysis Findings ..................................................................................... 53
Public Policy Overview .......................................................................................................... 55
  Susan G. Komen Advocacy ............................................................................................... 55
  National Breast and Cervical Cancer Early Detection Program .................................... 55
  State Comprehensive Cancer Control Plan ................................................................. 57
  Affordable Care Act ........................................................................................................... 62
  Medicaid Expansion ........................................................................................................... 63
  Affordable Care Act, Medicaid Expansion and Uninsured Women .................................. 64
Community Profile Summary ................................................................................................... 66
  Introduction to the Community Profile Report ............................................................... 66
  Quantitative Data: Measuring Breast Cancer Impact in Local Communities ................ 66
  Health Systems Analysis ................................................................................................... 68
  Public Policy Overview ...................................................................................................... 71
  Conclusions ........................................................................................................................ 77
References ................................................................................................................................. 79
Appendix .................................................................................................................................... 82
About Susan G. Komen®

Susan G. Komen is the world’s largest breast cancer organization, funding more breast cancer research than any other nonprofit while providing real-time help to those facing the disease. Since 1982, Komen has funded more than $889 million in research and provided $1.95 billion in funding to screening, education, treatment and psychosocial support programs serving millions of people in more than 30 countries worldwide. Komen was founded by Nancy G. Brinker, who promised her sister, Susan G. Komen, that she would end the disease that claimed Suzy’s life.

Since 1982, Komen has contributed to many of the advances made in the fight against breast cancer and transformed how the world treats and talks about this disease and have helped turn millions of breast cancer patients into breast cancer survivors:

- More early detection and effective treatment. Currently, about 70 percent of women 40 and older receive regular mammograms, the single most effective screening tool to find breast cancer early. Since 1990, early detection and effective treatment have resulted in a 34 percent decline in breast cancer death in the US.
- More hope. In 1980, the five-year relative survival rate for women diagnosed with early stage breast cancer was about 74 percent. Today, it’s 99 percent.
- More research. The federal government now devotes more than $850 million each year to breast cancer research, treatment and prevention, compared to $30 million in 1982.
- More survivors. Today, there are more than three million breast cancers survivors in the US.

Visit komen.org or call 1-877 GO KOMEN. Connect with us on social at ww5.komen.org/social.

Susan G. Komen Affiliate Network

Thanks to survivors, volunteers and activists dedicated to the fight against breast cancer, the Komen Affiliate Network is working to better the lives of those facing breast cancer in the local community. Through events like the Komen Race for the Cure® series, the local Komen Affiliates invest funds raised locally into community health programs to provide evidence-based breast health education and breast cancer screening, diagnostic and treatment programs, and contribute to the more than $889 million invested globally in research.

At this time, there is not a local Komen Affiliate in the State of New Mexico. To learn more on how you can become involved with Susan G. Komen, please contact 1-877-GO-KOMEN.

Purpose of the State Community Profile Report

The purpose of the New Mexico Community Profile is to assess breast cancer burden within the state by identifying areas at highest risk of negative breast cancer outcomes. Through the Community Profile, populations most at-risk of dying from breast cancer and their demographic
and socioeconomic characteristics can be identified; as well as, the needs and disparities that exist in availability, access and utilization of quality care.

The Community Profile consists of the following three sections:

- **Quantitative Data:** This section provides secondary data on breast cancer rates and trends that include incidence, deaths and late-stage diagnosis along with mammography screening proportions. This section also explores demographic, social and geographic characteristics that influence breast cancer outcomes such as race/ethnicity, socioeconomic status, educational attainment and insurance status.

- **Health System Analysis:** This section tells the story of the breast cancer continuum of care and the delivery of quality health care in the community. Key to this section is the observation of potential strengths and weaknesses in the health care system that could compromise a women’s health as she works her way through the continuum of care (e.g., screening, diagnosis, treatment and follow-up/survivorship services).

- **Public Policy Overview:** This section provides an overview of key breast cancer policies that affect the ability of at-risk women in accessing and utilizing quality care. This section covers the state’s National Breast and Cervical Cancer Early Detection Program, the state’s National Comprehensive Cancer Control Program and the Affordable Care Act.
The purpose of the quantitative data report for the State of New Mexico is to provide quantitative data from many credible sources and use the data to identify the highest priority areas in the state for evidence-based breast cancer programs.

The quantitative data report provides the following data at the state and county-level as well as for the United States:

- Female breast cancer incidence (new cases)
- Female breast cancer death rates
- Late-stage diagnosis
- Screening mammography proportions
- Population demographics (e.g. age, race/ethnicity)
- Socioeconomic indicators (e.g. income and education level)

The data provided in the report can be used to identify priorities within the state based on estimates of how long it would take an area to achieve Healthy People 2020 objectives for breast cancer late-stage diagnosis and death rates (Healthy People 2020, 2010).

**Quantitative Data**

This section of the report provides specific information on the major types of data that are included in the report.

**Incidence Rates**

"Incidence" means the number of new cases of breast cancer that develop in a specific time period.

If the breast cancer incidence rate increases, it may mean that more women are getting breast cancer. However, it could also mean that more breast cancers are being found because of an increase in screening.

The breast cancer incidence rate shows the frequency of new cases of breast cancer among women living in an area during a certain time period. Incidence rates may be calculated for all women or for specific groups of women (e.g. for Asian/Pacific Islander women living in the area).

**How incidence rates are calculated**

The female breast cancer incidence rate is calculated as the number of females in an area who were diagnosed with breast cancer divided by the total number of females living in that area. Incidence rates are usually expressed in terms of 100,000 people. For example, suppose there are 50,000 females living in an area and 60 of them are diagnosed with breast cancer during a
certain time period. Sixty out of 50,000 is the same as 120 out of 100,000. So the female breast cancer incidence rate would be reported as 120 per 100,000 for that time period.

**Adjusting for age**
Breast cancer becomes more common as women grow older. When comparing breast cancer rates for an area where many older people live to rates for an area where younger people live, it’s hard to know whether the differences are due to age or whether other factors might also be involved.

To account for age, breast cancer rates are usually adjusted to a common standard age distribution. This is done by calculating the breast cancer rates for each age group (such as 45-to 49-year-olds) separately, and then figuring out what the total breast cancer rate would have been if the proportion of people in each age group in the population that’s being studied was the same as that of the standard population.

Using age-adjusted rates makes it possible to spot differences in breast cancer rates caused by factors other than differences in age between groups of women.

**Trends over time**
To show trends (changes over time) in cancer incidence, data for the annual percent change in the incidence rate over a five-year period were included in the report. The annual percent change is the average year-to-year change of the incidence rate. It may be either a positive or negative number.

- A negative value means that the rates are getting lower.
- A positive value means that the rates are getting higher.
- A positive value (rates getting higher) may seem undesirable—and it generally is. However, it’s important to remember that an increase in breast cancer incidence could also mean that more breast cancers are being found because more women are getting mammograms. So higher rates don’t necessarily mean that there has been an increase in the occurrence of breast cancer.

**Confidence intervals**
Because numbers for breast cancer rates and trends are not exact, this report includes confidence intervals. A confidence interval is a range of values that gives an idea of how uncertain a value may be. It’s shown as two numbers—a lower value and a higher one. It is very unlikely that the true rate is less than the lower value or more than the higher value. For example, if a breast cancer incidence rate was reported as 120 per 100,000 women, with a confidence interval of 105 to 135, the real rate might not be exactly 120 per 100,000, but it’s very unlikely that it’s less than 105 or more than 135.
Breast cancer incidence rates and trends

Breast cancer incidence rates and trends are shown in Table 2.1 for:
- United States
- State of New Mexico
- Each county of New Mexico

For the State of New Mexico, rates are also shown by race for Whites, Blacks/African-Americans, Asians and Pacific Islanders (API), and American Indians and Alaska Natives (AIAN). In addition, rates are shown by ethnicity for Hispanics/Latinas and women who are not Hispanic/Latina (regardless of their race).

The rates in Table 2.1 are shown per 100,000 females from 2006 to 2010.

Table 2.1. Female breast cancer incidence rates and trends

<table>
<thead>
<tr>
<th>Population Group</th>
<th>Female Population (Annual Average)</th>
<th># of New Cases (Annual Average)</th>
<th>Age-adjusted Incidence Rate /100,000</th>
<th>Confidence Interval of Age-adjusted Incidence Rate</th>
<th>Incidence Trend (Annual Percent Change)</th>
<th>Confidence Interval of Incidence Trend</th>
</tr>
</thead>
<tbody>
<tr>
<td>US (states with available data)</td>
<td>145,332,861</td>
<td>198,602</td>
<td>122.1</td>
<td>121.9 : 122.4</td>
<td>-0.2%</td>
<td>-2.0% : 1.7%</td>
</tr>
<tr>
<td>New Mexico</td>
<td>1,019,306</td>
<td>1,240</td>
<td>108.8</td>
<td>106.1 : 111.6</td>
<td>0.3%</td>
<td>-2.5% : 3.2%</td>
</tr>
<tr>
<td>White</td>
<td>865,188</td>
<td>1,147</td>
<td>113.0</td>
<td>110.1 : 116.1</td>
<td>0.4%</td>
<td>-2.8% : 3.6%</td>
</tr>
<tr>
<td>Black/African-American</td>
<td>25,512</td>
<td>16</td>
<td>83.4</td>
<td>65.9 : 104.0</td>
<td>-10.7%</td>
<td>-39.9% : 32.6%</td>
</tr>
<tr>
<td>AIAN</td>
<td>109,518</td>
<td>53</td>
<td>58.8</td>
<td>51.7 : 66.4</td>
<td>-0.8%</td>
<td>-10.6% : 10.1%</td>
</tr>
<tr>
<td>API</td>
<td>19,088</td>
<td>10</td>
<td>52.7</td>
<td>38.5 : 70.5</td>
<td>-10.1%</td>
<td>-31.0% : 17.2%</td>
</tr>
<tr>
<td>Non-Hispanic/ Latina</td>
<td>557,167</td>
<td>865</td>
<td>116.4</td>
<td>112.8 : 120.0</td>
<td>0.4%</td>
<td>-4.0% : 4.9%</td>
</tr>
<tr>
<td>Hispanic/ Latina</td>
<td>462,139</td>
<td>375</td>
<td>93.3</td>
<td>89.1 : 97.7</td>
<td>0.5%</td>
<td>-2.6% : 3.7%</td>
</tr>
<tr>
<td>Bernalillo County</td>
<td>330,060</td>
<td>424</td>
<td>117.9</td>
<td>112.9 : 123.1</td>
<td>3.3%</td>
<td>NA</td>
</tr>
<tr>
<td>Catron County</td>
<td>1,733</td>
<td>SN</td>
<td>SN</td>
<td>SN SN SN</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Chaves County</td>
<td>32,547</td>
<td>37</td>
<td>101.4</td>
<td>87.0 : 117.5</td>
<td>-13.8%</td>
<td>NA</td>
</tr>
<tr>
<td>Cibola County</td>
<td>13,481</td>
<td>13</td>
<td>92.3</td>
<td>71.2 : 117.8</td>
<td>-9.8%</td>
<td>-18.5% : 0.0%</td>
</tr>
<tr>
<td>Colfax County</td>
<td>6,811</td>
<td>7</td>
<td>67.7</td>
<td>46.9 : 96.2</td>
<td>13.2%</td>
<td>-20.5% : 61.4%</td>
</tr>
<tr>
<td>Curry County</td>
<td>23,449</td>
<td>23</td>
<td>95.9</td>
<td>78.9 : 115.4</td>
<td>-6.7%</td>
<td>NA</td>
</tr>
<tr>
<td>De Baca County</td>
<td>1,011</td>
<td>SN</td>
<td>SN</td>
<td>SN SN SN</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Doña Ana County</td>
<td>102,924</td>
<td>98</td>
<td>94.1</td>
<td>85.8 : 102.9</td>
<td>0.9%</td>
<td>-9.5% : 12.5%</td>
</tr>
<tr>
<td>Eddy County</td>
<td>26,475</td>
<td>31</td>
<td>103.7</td>
<td>87.7 : 121.8</td>
<td>-5.1%</td>
<td>-27.2% : 23.6%</td>
</tr>
<tr>
<td>Grant County</td>
<td>15,151</td>
<td>23</td>
<td>106.7</td>
<td>87.0 : 129.9</td>
<td>-9.8%</td>
<td>-18.8% : 0.1%</td>
</tr>
<tr>
<td>Guadalupe County</td>
<td>2,042</td>
<td>SN</td>
<td>SN</td>
<td>SN SN SN</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Harding County</td>
<td>341</td>
<td>SN</td>
<td>SN</td>
<td>SN SN SN</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Hidalgo County</td>
<td>2,476</td>
<td>SN</td>
<td>SN</td>
<td>SN SN SN</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Lea County</td>
<td>30,696</td>
<td>26</td>
<td>87.0</td>
<td>72.7 : 103.2</td>
<td>7.2%</td>
<td>-3.9% : 19.7%</td>
</tr>
<tr>
<td>Lincoln County</td>
<td>10,434</td>
<td>16</td>
<td>98.7</td>
<td>76.7 : 125.9</td>
<td>7.4%</td>
<td>-25.7% : 55.3%</td>
</tr>
<tr>
<td>Los Alamos County</td>
<td>9,001</td>
<td>15</td>
<td>127.1</td>
<td>99.0 : 161.4</td>
<td>-5.7%</td>
<td>-24.8% : 18.2%</td>
</tr>
<tr>
<td>Population Group</td>
<td>Female Population (Annual Average)</td>
<td># of New Cases (Annual Average)</td>
<td>Age-adjusted Incidence Rate /100,000</td>
<td>Confidence Interval of Age-adjusted Incidence Rate</td>
<td>Incidence Trend (Annual Percent Change)</td>
<td>Confidence Interval of Incidence Trend</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------</td>
<td>----------------------------------</td>
<td>--------------------------------------</td>
<td>-------------------------------------------------</td>
<td>---------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Luna County</td>
<td>12,716</td>
<td>15</td>
<td>95.1</td>
<td>74.1 : 120.4</td>
<td>4.9%</td>
<td>-20.5% : 38.5%</td>
</tr>
<tr>
<td>McKinley County</td>
<td>36,506</td>
<td>20</td>
<td>60.1</td>
<td>48.8 : 73.3</td>
<td>-4.3%</td>
<td>-19.6% : 13.9%</td>
</tr>
<tr>
<td>Mora County</td>
<td>2,432</td>
<td>3</td>
<td>99.2</td>
<td>55.8 : 167.0</td>
<td>18.2%</td>
<td>-35.4% : 116.4%</td>
</tr>
<tr>
<td>Otero County</td>
<td>31,188</td>
<td>35</td>
<td>97.0</td>
<td>82.9 : 112.8</td>
<td>-3.3%</td>
<td>-17.5% : 13.5%</td>
</tr>
<tr>
<td>Quay County</td>
<td>4,591</td>
<td>7</td>
<td>101.8</td>
<td>70.2 : 145.1</td>
<td>16.5%</td>
<td>-16.3% : 62.0%</td>
</tr>
<tr>
<td>Rio Arriba County</td>
<td>20,336</td>
<td>20</td>
<td>86.7</td>
<td>70.3 : 105.8</td>
<td>2.2%</td>
<td>-8.4% : 14.1%</td>
</tr>
<tr>
<td>Roosevelt County</td>
<td>9,686</td>
<td>8</td>
<td>89.4</td>
<td>64.1 : 121.2</td>
<td>-10.7%</td>
<td>NA</td>
</tr>
<tr>
<td>Sandoval County</td>
<td>63,541</td>
<td>87</td>
<td>120.3</td>
<td>109.0 : 132.5</td>
<td>-0.1%</td>
<td>-16.4% : 19.3%</td>
</tr>
<tr>
<td>San Juan County</td>
<td>64,214</td>
<td>63</td>
<td>100.4</td>
<td>89.5 : 112.3</td>
<td>4.0%</td>
<td>-2.0% : 10.3%</td>
</tr>
<tr>
<td>San Miguel County</td>
<td>14,729</td>
<td>14</td>
<td>82.9</td>
<td>64.0 : 105.7</td>
<td>-3.4%</td>
<td>-18.4% : 14.4%</td>
</tr>
<tr>
<td>Santa Fe County</td>
<td>72,655</td>
<td>120</td>
<td>129.5</td>
<td>118.9 : 140.8</td>
<td>-4.2%</td>
<td>-13.6% : 6.3%</td>
</tr>
<tr>
<td>Sierra County</td>
<td>5,941</td>
<td>10</td>
<td>95.5</td>
<td>67.6 : 133.5</td>
<td>7.6%</td>
<td>-31.0% : 67.8%</td>
</tr>
<tr>
<td>Socorro County</td>
<td>8,751</td>
<td>11</td>
<td>116.8</td>
<td>87.9 : 152.4</td>
<td>1.5%</td>
<td>NA</td>
</tr>
<tr>
<td>Taos County</td>
<td>16,560</td>
<td>30</td>
<td>131.5</td>
<td>110.6 : 155.7</td>
<td>-1.2%</td>
<td>NA</td>
</tr>
<tr>
<td>Torrance County</td>
<td>7,899</td>
<td>11</td>
<td>111.8</td>
<td>82.7 : 148.2</td>
<td>-13.4%</td>
<td>-47.3% : 42.4%</td>
</tr>
<tr>
<td>Union County</td>
<td>1,936</td>
<td>3</td>
<td>104.6</td>
<td>60.3 : 176.5</td>
<td>-21.5%</td>
<td>-71.5% : 116.2%</td>
</tr>
<tr>
<td>Valencia County</td>
<td>36,994</td>
<td>41</td>
<td>102.5</td>
<td>88.7 : 117.8</td>
<td>4.1%</td>
<td>-8.3% : 18.1%</td>
</tr>
</tbody>
</table>

NA – data not available.
SN – data suppressed due to small numbers (15 cases or fewer for the 5-year data period).
Data are for years 2006-2010.
Rates are in cases per 100,000.
Age-adjusted rates are adjusted to the 2000 US standard population.
Source: NAACCR – CINA Deluxe Analytic File.
**Map of incidence rates**

Figure 2.1 shows a map of breast cancer incidence rates for the counties in New Mexico. When the numbers of cases used to compute the rates are small (15 cases or fewer for the five-year data period), those rates are unreliable and are shown as “small numbers” on the map.

*Map with counties labeled is available in Appendix.

Data are for years 2006-2010.

Rates are in cases per 100,000.

Age-adjusted rates are adjusted to the 2000 US standard population.

Source: NAACCR – CINA Deluxe Analytic File.

**Figure 2.1.** Female breast cancer age-adjusted incidence rates
Conclusions: Breast cancer incidence rates and trends
Overall, the breast cancer incidence rate in the State of New Mexico was significantly lower than that observed in the US as a whole and the incidence trend was higher than the US as a whole.

For the United States, breast cancer incidence in Blacks/African-Americans is similar to Whites overall. The most recent estimated breast cancer incidence rates for APIs and AIANs were lower than for Non-Hispanic Whites and Blacks/African-Americans. The most recent estimated incidence rates for Hispanics/Latinas were lower than for Non-Hispanic Whites and Blacks. For the State of New Mexico, the incidence rate was significantly lower among Blacks/African-Americans than Whites, significantly lower among APIs than Whites, and significantly lower among AIANs than Whites. The incidence rate among Hispanics/Latinas was significantly lower than among Non-Hispanics/Latinas.

The following counties had an incidence rate significantly higher than the state as a whole:
- Bernalillo County
- Santa Fe County

The incidence rate was significantly lower in the following counties:
- Colfax County
- Doña Ana County
- Lea County
- McKinley County
- Rio Arriba County
- San Miguel County

The rest of the counties had incidence rates and trends that were not significantly different than the state as a whole or did not have enough data available.

It’s important to remember that an increase in breast cancer incidence could also mean that more breast cancers are being found because more women are getting mammograms.

Death Rates

A fundamental goal is to reduce the number of women dying from breast cancer.

Death rate trends should always be negative: death rates should be getting lower over time.

The breast cancer death rate shows the frequency of death from breast cancer among women living in a given area during a certain time period. Like incidence rates, death rates may be calculated for all women or for specific groups of women (e.g. Black/African-American women).
How death rates are calculated
The death rate is calculated as the number of women from a particular geographic area who died from breast cancer divided by the total number of women living in that area. Like incidence rates, death rates are often shown in terms of 100,000 women and adjusted for age.

Death rate trends
As with incidence rates, data are included for the annual percent change in the death rate over a five-year period.

The meanings of these data are the same as for incidence rates, with one exception. Changes in screening don't affect death rates in the way that they affect incidence rates. So a negative value, which means that death rates are getting lower, is always desirable. A positive value, which means that death rates are getting higher, is always undesirable.

Confidence intervals
As with incidence rates, this report includes the confidence interval of the age-adjusted breast cancer death rates and trends because the numbers are not exact. The confidence interval is shown as two numbers—a lower value and a higher one. It is very unlikely that the true rate is less than the lower value or more than the higher value.

Breast cancer death rates and trends
Breast cancer death rates and trends are shown in Table 2.2 for:
- United States
- State of New Mexico
- Each county of New Mexico

For the state, rates are also shown by race for Whites, Blacks/African-Americans, Asians and Pacific Islanders (API), and American Indians and Alaska Natives (AIAN). In addition, rates are shown by ethnicity for Hispanics/Latinas and women who are not Hispanic/Latina (regardless of their race).

The rates in Table 2.2 are shown per 100,000 females from 2006 to 2010. The HP2020 death rate target is included for reference.
Table 2.2. Female breast cancer death rates and trends

<table>
<thead>
<tr>
<th>Population Group</th>
<th>Female Population (Annual Average)</th>
<th># of Deaths (Annual Average)</th>
<th>Age-adjusted Death Rate /100,000</th>
<th>Confidence Interval of Age-adjusted Death Rate</th>
<th>Death Trend (Annual Percent Change)</th>
<th>Confidence Interval of Death Rate Trend</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>154,540,194</td>
<td>40,736</td>
<td>22.6</td>
<td>22.5 : 22.7</td>
<td>-1.9%</td>
<td>-2.0% : -1.8%</td>
</tr>
<tr>
<td>HP2020</td>
<td>-</td>
<td>-</td>
<td>20.6*</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>New Mexico</td>
<td>1,019,306</td>
<td>243</td>
<td>20.9</td>
<td>19.7 : 22.1</td>
<td>-1.7%</td>
<td>-2.4% : -1.0%</td>
</tr>
<tr>
<td>White</td>
<td>865,188</td>
<td>226</td>
<td>21.7</td>
<td>20.4 : 23.0</td>
<td>-1.7%</td>
<td>-2.5% : -1.0%</td>
</tr>
<tr>
<td>Black/African-American</td>
<td>25,512</td>
<td>4</td>
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<td>-2.7% : -1.0%</td>
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<td>23,449</td>
<td>5</td>
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<td>13.6 : 30.8</td>
<td>-1.9%</td>
<td>-5.1% : 1.5%</td>
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<tr>
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<td>-0.6% : 5.4%</td>
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<td>-4.1% : 4.8%</td>
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<td>-4.6% : 0.0%</td>
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<td>-5.4% : 1.8%</td>
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<td>8.6 : 21.3</td>
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<td>-5.4% : 1.8%</td>
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<td>16.4 : 30.9</td>
<td>-0.3%</td>
<td>-1.9% : 1.3%</td>
</tr>
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<td>8.8 : 23.8</td>
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<td>-4.9% : 2.4%</td>
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<td># of Deaths (Annual Average)</td>
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<td>Confidence Interval of Age-adjusted Death Rate</td>
<td>Death Trend (Annual Percent Change)</td>
<td>Confidence Interval of Death Rate Trend</td>
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<td>24.0</td>
<td>17.7 : 32.0</td>
<td>0.7%</td>
<td>-2.1% : 3.5%</td>
</tr>
</tbody>
</table>

*Target as of the writing of this report.
NA – data not available.
SN – data suppressed due to small numbers (15 deaths or fewer for the 5-year data period).
Data are for years 2006-2010.
Rates are in deaths per 100,000.
Age-adjusted rates are adjusted to the 2000 US standard population.
Source of death trend data: NCI/CDC State Cancer Profiles.
**Map of death rates**

Figure 2.2 shows a map of breast cancer death rates for the counties in New Mexico. When the numbers of deaths used to compute the rates are small (15 cases or fewer for the five-year data period), those rates are unreliable and are shown as “small numbers” on the map.

*Map with counties labeled is available in Appendix.*

Data are for years 2006-2010.
Rates are in deaths per 100,000.
Age-adjusted rates are adjusted to the 2000 US standard population.

**Figure 2.2.** Female breast cancer age-adjusted death rates
**Conclusions: Breast cancer death rates and trends**

Overall, the breast cancer death rate in the State of New Mexico was significantly lower than that observed in the US as a whole and the death rate trend was slightly higher than the US as a whole.

For the United States, breast cancer death rates in Blacks/African-Americans are substantially higher than in Whites overall. The most recent estimated breast cancer death rates for APIs and AIANs were lower than for Non-Hispanic Whites and Blacks/African-Americans. The most recent estimated death rates for Hispanics/Latinas were lower than for Non-Hispanic Whites and Blacks/African-Americans. For the State of New Mexico, the death rate was about the same among Blacks/African-Americans and Whites and significantly lower among AIANs than Whites. There were not enough data available within the state to report on APIs so comparisons cannot be made for this racial group. The death rate among Hispanics/Latinas was slightly lower than among Non-Hispanics/Latinas.

The following county had a death rate **significantly higher** than the state as a whole:

- Taos County

**Significantly less favorable trends** in breast cancer death rates were observed in the following counties:

- Eddy County
- Taos County

The rest of the counties had death rates and trends that were not significantly different than the state as a whole or did not have enough data available.

**Late-Stage Diagnosis**

People with breast cancer have a better chance of survival if their disease is found early and treated.

The stage of cancer indicates the extent of the disease within the body. Most often, the higher the stage of the cancer, the poorer the chances for survival will be.

If a breast cancer is determined to be regional or distant stage, it’s considered a late-stage diagnosis.

Medical experts agree that it’s best for breast cancer to be detected early. Women whose breast cancers are found at an early stage usually need less aggressive treatment and do better overall than those whose cancers are found at a late-stage (US Preventive Services Task Force, 2009).
How late-stage breast cancer incidence rates are calculated
For this report, late-stage breast cancer is defined as regional or distant stage using the Surveillance, Epidemiology and End Results (SEER) Summary Stage definitions (SEER Summary Stage, 2001). State and national reporting usually uses the SEER Summary Stage. It provides a consistent set of definitions of stages for historical comparisons.

The late-stage breast cancer incidence rate is calculated as the number of women with regional or distant breast cancer in a particular geographic area divided by the number of women living in that area.

Like incidence and death rates, late-stage incidence rates are often shown in terms of 100,000 women and adjusted for age.

Proportion of late-stage diagnoses
Another way to assess the impact of late-stage breast cancer diagnosis on a community is to look at the proportion (percentage) of breast cancers that are diagnosed at late-stage. By lowering the proportion of female breast cancer cases that are diagnosed at late-stage in a given community, it is reasonable to expect that the community will observe a lower breast cancer death rate.

A change in the proportion of late-stage breast cancer cases can be a good indicator of the direction the breast cancer death rate will move over time. In addition, the proportion of late-stage breast cancer is an indicator of the success of early detection efforts (Taplin et al., 2004). So, in addition to the late-stage breast cancer incidence rate, this report includes the late-stage breast cancer proportion (the ratio of late-stage cases to total cases). Note that the late-stage incidence rate may go down over time yet the late-stage proportion may not if the overall incidence rate is declining as well.

How late-stage breast cancer proportions are calculated
The late-stage breast cancer proportion is the ratio between the number of cases diagnosed at regional or distant stages and the total number of breast cancer cases that have been diagnosed and staged in a particular geographic area. It is important to note that cases with unknown stage are excluded from this calculation. However, assuming the size and distribution of cases with unknown stage does not change significantly, the late-stage proportion can be a very good indicator of the need for or effectiveness of early detection interventions.

Confidence intervals
As with incidence and death rates, this report includes the confidence interval of the late-stage incidence rates and trends, and the late-stage proportions and trends because the numbers are not exact. The confidence interval is shown as two numbers—a lower value and a higher one. It is very unlikely that the true rate is less than the lower value or more than the higher value.
Late-stage breast cancer incidence, proportions and trends
Late-stage breast cancer incidence rates, proportions and trends are shown in Tables 2.3 and 2.4 for:
- United States
- State of New Mexico
- Each county of New Mexico

For the State of New Mexico, rates are also shown by race for Whites, Blacks/African-Americans, Asians and Pacific Islanders (API), and American Indians and Alaska Natives (AIAN). In addition, rates are shown by ethnicity for Hispanics/Latinas and women who are not Hispanic/Latina (regardless of their race).

The rates in Table 2.3 are shown per 100,000 females from 2006 to 2010. The HP2020 late-state incidence rate target is included for reference.

### Table 2.3. Female breast cancer late-stage incidence rates and trends

<table>
<thead>
<tr>
<th>Population Group</th>
<th>Female Population (Annual Average)</th>
<th># of New Late-stage Cases (Annual Average)</th>
<th>Age-adjusted Late-stage Incidence rate/100,000</th>
<th>Confidence Interval of Age-adjusted Incidence Rate</th>
<th>Late stage Trend (Annual Percent Change)</th>
<th>Confidence Interval of Late-stage Trend</th>
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<tbody>
<tr>
<td>US (states with available data)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
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<td>-3.8% : 6.9%</td>
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<tr>
<td>Black/African-American</td>
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<td>24</td>
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<td>21.4 : 31.1</td>
<td>2.5%</td>
<td>-13.1% : 20.8%</td>
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<td>API</td>
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<td>16.6</td>
<td>9.3 : 27.5</td>
<td>SN</td>
<td>SN</td>
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<td>Non-Hispanic/ Latina</td>
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<td>-6.7% : 9.1%</td>
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<td>30.5 : 35.6</td>
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<td>-4.2% : 7.2%</td>
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<td>-3.1% : 7.9%</td>
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<td>Chaves County</td>
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<td>28.7 : 48.3</td>
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<td>-47.3% : 51.7%</td>
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<td>Curry County</td>
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<td>-34.6% : 38.1%</td>
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<td>Female Population (Annual Average)</td>
<td># of New Late-stage Cases (Annual Average)</td>
<td>Age-adjusted Late-stage Incidence rate /100,000</td>
<td>Confidence Interval of Age-adjusted Incidence Rate</td>
<td>Late-stage Trend (Annual Percent Change)</td>
<td>Confidence Interval of Late-stage Trend</td>
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<td>6.8%</td>
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<td>22.7</td>
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<td>-6.9%</td>
<td>-29.3% : 22.5%</td>
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</tr>
<tr>
<td>Sandoval County</td>
<td>63,541 29</td>
<td>40.5</td>
<td>34.1 : 47.8</td>
<td>0.8%</td>
<td>-12.3% : 15.8%</td>
<td></td>
</tr>
<tr>
<td>San Juan County</td>
<td>64,214 21</td>
<td>33.9</td>
<td>27.7 : 41.2</td>
<td>2.7%</td>
<td>-19.6% : 31.1%</td>
<td></td>
</tr>
<tr>
<td>San Miguel County</td>
<td>14,729 4</td>
<td>27.1</td>
<td>16.6 : 41.9</td>
<td>-15.6%</td>
<td>-57.0% : 65.5%</td>
<td></td>
</tr>
<tr>
<td>Santa Fe County</td>
<td>72,655 35</td>
<td>38.6</td>
<td>32.8 : 45.1</td>
<td>1.4%</td>
<td>-21.7% : 31.4%</td>
<td></td>
</tr>
<tr>
<td>Sierra County</td>
<td>5,941 4</td>
<td>38.9</td>
<td>20.8 : 68.5</td>
<td>12.5%</td>
<td>-19.6% : 57.3%</td>
<td></td>
</tr>
<tr>
<td>Socorro County</td>
<td>8,751 3</td>
<td>36.2</td>
<td>20.7 : 58.8</td>
<td>1.7%</td>
<td>-36.0% : 61.9%</td>
<td></td>
</tr>
<tr>
<td>Taos County</td>
<td>16,560 7</td>
<td>32.7</td>
<td>22.5 : 46.5</td>
<td>-4.0%</td>
<td>-51.2% : 88.8%</td>
<td></td>
</tr>
<tr>
<td>Torrance County</td>
<td>7,899 5</td>
<td>50.3</td>
<td>31.6 : 76.6</td>
<td>-12.8%</td>
<td>-33.2% : 13.8%</td>
<td></td>
</tr>
<tr>
<td>Union County</td>
<td>1,936 SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td></td>
</tr>
<tr>
<td>Valencia County</td>
<td>36,994 16</td>
<td>38.9</td>
<td>30.5 : 48.8</td>
<td>-0.2%</td>
<td>-7.7% : 8.0%</td>
<td></td>
</tr>
</tbody>
</table>

* Target as of the writing of this report.
NA – data not available.
SN – data suppressed due to small numbers (15 cases or fewer for the 5-year data period).
Data are for years 2006-2010.
Rates are in cases per 100,000.
Age-adjusted rates are adjusted to the 2000 US standard population.
Source: NAACCR – CINA Deluxe Analytic File.
### Table 2.4. Female breast cancer late-stage proportion and trends and distant-stage proportion for women age 50-74

<table>
<thead>
<tr>
<th>Population Group</th>
<th># of New Staged Cases (Annual Average)</th>
<th># of Cases Diagnosed at Late-stage (Annual Average)</th>
<th>Proportion Diagnosed at Late-stage</th>
<th>Confidence Interval of Late-stage Proportion</th>
<th>Late-stage Proportion Trend (Annual Percent Change)</th>
<th>Confidence Interval of Late-stage Proportion Trend</th>
<th>Proportion Diagnosed at Distant-stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>111,487</td>
<td>39,543</td>
<td>35.5%</td>
<td>35.3% : 35.6%</td>
<td>-1.4%</td>
<td>-1.7% : -1.1%</td>
<td>5.6%</td>
</tr>
<tr>
<td>New Mexico</td>
<td>738</td>
<td>247</td>
<td>33.4%</td>
<td>31.9% : 35.0%</td>
<td>0.7%</td>
<td>-5.8% : 7.7%</td>
<td>4.8%</td>
</tr>
<tr>
<td>White</td>
<td>684</td>
<td>226</td>
<td>33.0%</td>
<td>31.4% : 34.5%</td>
<td>1.1%</td>
<td>-6.9% : 9.8%</td>
<td>4.7%</td>
</tr>
<tr>
<td>Black/African-American</td>
<td>8</td>
<td>4</td>
<td>42.9%</td>
<td>27.9% : 57.8%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>AIAN</td>
<td>33</td>
<td>14</td>
<td>43.1%</td>
<td>35.6% : 50.6%</td>
<td>-1.3%</td>
<td>-22.2% : 25.3%</td>
<td>8.4%</td>
</tr>
<tr>
<td>API</td>
<td>5</td>
<td>1</td>
<td>26.9%</td>
<td>9.9% : 44.0%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Non-Hispanic</td>
<td>524</td>
<td>176</td>
<td>33.6%</td>
<td>31.8% : 35.4%</td>
<td>-0.2%</td>
<td>-6.5% : 6.6%</td>
<td>4.8%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>214</td>
<td>71</td>
<td>33.1%</td>
<td>30.3% : 35.9%</td>
<td>3.1%</td>
<td>-4.9% : 11.9%</td>
<td>4.9%</td>
</tr>
<tr>
<td>Bernalillo County</td>
<td>246</td>
<td>86</td>
<td>35.1%</td>
<td>32.4% : 37.7%</td>
<td>-1.1%</td>
<td>-9.5% : 8.1%</td>
<td>5.4%</td>
</tr>
<tr>
<td>Catron County</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
</tr>
<tr>
<td>Chaves County</td>
<td>20</td>
<td>6</td>
<td>29.3%</td>
<td>20.3% : 38.3%</td>
<td>7.4%</td>
<td>-44.2% : 106.8%</td>
<td>SN</td>
</tr>
<tr>
<td>Cibola County</td>
<td>7</td>
<td>3</td>
<td>43.2%</td>
<td>27.3% : 59.2%</td>
<td>-16.6%</td>
<td>-44.2% : 24.7%</td>
<td>13.5%</td>
</tr>
<tr>
<td>Colfax County</td>
<td>5</td>
<td>1</td>
<td>28.0%</td>
<td>10.4% : 45.6%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Curry County</td>
<td>11</td>
<td>4</td>
<td>35.8%</td>
<td>22.9% : 48.8%</td>
<td>6.4%</td>
<td>-22.9% : 46.7%</td>
<td>SN</td>
</tr>
<tr>
<td>De Baca County</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
</tr>
<tr>
<td>Doña Ana County</td>
<td>59</td>
<td>22</td>
<td>37.4%</td>
<td>31.9% : 42.9%</td>
<td>11.2%</td>
<td>0.9% : 22.6%</td>
<td>4.7%</td>
</tr>
<tr>
<td>Eddy County</td>
<td>17</td>
<td>6</td>
<td>33.3%</td>
<td>23.4% : 43.2%</td>
<td>-8.7%</td>
<td>-28.5% : 16.5%</td>
<td>8.0%</td>
</tr>
<tr>
<td>Grant County</td>
<td>14</td>
<td>5</td>
<td>32.9%</td>
<td>21.9% : 43.9%</td>
<td>25.0%</td>
<td>NA</td>
<td>5.7%</td>
</tr>
<tr>
<td>Guadalupe County</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
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<tr>
<td>Harding County</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
</tr>
<tr>
<td>Hidalgo County</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
</tr>
<tr>
<td>Lea County</td>
<td>14</td>
<td>7</td>
<td>47.2%</td>
<td>35.7% : 58.8%</td>
<td>-19.0%</td>
<td>-38.9% : 7.4%</td>
<td>9.7%</td>
</tr>
<tr>
<td>Lincoln County</td>
<td>11</td>
<td>3</td>
<td>29.8%</td>
<td>17.9% : 41.7%</td>
<td>0.8%</td>
<td>-15.1% : 19.8%</td>
<td>SN</td>
</tr>
<tr>
<td>Los Alamos County</td>
<td>9</td>
<td>3</td>
<td>34.9%</td>
<td>20.6% : 49.1%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Luna County</td>
<td>10</td>
<td>4</td>
<td>39.2%</td>
<td>25.8% : 52.6%</td>
<td>-2.5%</td>
<td>-25.9% : 28.4%</td>
<td>9.8%</td>
</tr>
<tr>
<td>McKinley County</td>
<td>12</td>
<td>5</td>
<td>39.0%</td>
<td>26.5% : 51.4%</td>
<td>-9.2%</td>
<td>-32.7% : 22.4%</td>
<td>SN</td>
</tr>
<tr>
<td>Mora County</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
</tr>
<tr>
<td>Otero County</td>
<td>21</td>
<td>6</td>
<td>30.2%</td>
<td>21.4% : 38.9%</td>
<td>18.4%</td>
<td>-11.5% : 58.3%</td>
<td>SN</td>
</tr>
<tr>
<td>Quay County</td>
<td>4</td>
<td>2</td>
<td>36.4%</td>
<td>16.3% : 56.5%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Rio Arriba County</td>
<td>13</td>
<td>3</td>
<td>21.2%</td>
<td>11.3% : 31.1%</td>
<td>-6.9%</td>
<td>-52.7% : 83.2%</td>
<td>6.1%</td>
</tr>
<tr>
<td>Roosevelt County</td>
<td>5</td>
<td>1</td>
<td>28.0%</td>
<td>10.4% : 45.6%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Sandia County</td>
<td>56</td>
<td>19</td>
<td>34.2%</td>
<td>28.6% : 39.7%</td>
<td>3.1%</td>
<td>-13.7% : 23.2%</td>
<td>4.3%</td>
</tr>
<tr>
<td>San Juan County</td>
<td>37</td>
<td>12</td>
<td>31.5%</td>
<td>24.8% : 38.2%</td>
<td>5.5%</td>
<td>-17.1% : 34.4%</td>
<td>4.3%</td>
</tr>
<tr>
<td>San Miguel County</td>
<td>9</td>
<td>3</td>
<td>28.9%</td>
<td>15.6% : 42.1%</td>
<td>-4.0%</td>
<td>-49.5% : 82.3%</td>
<td>SN</td>
</tr>
<tr>
<td>Santa Fe County</td>
<td>74</td>
<td>21</td>
<td>28.0%</td>
<td>23.4% : 32.6%</td>
<td>-0.2%</td>
<td>-33.4% : 49.4%</td>
<td>3.5%</td>
</tr>
<tr>
<td>Population Group</td>
<td># of New Staged Cases (Annual Average)</td>
<td># of Cases Diagnosed at Late-stage (Annual Average)</td>
<td>Proportion Diagnosed at Late-stage</td>
<td>Confidence Interval of Late-stage Proportion</td>
<td>Late-stage Proportion Trend (Annual Percent Change)</td>
<td>Confidence Interval of Late-stage Proportion Trend</td>
<td>Proportion Diagnosed at Distant-stage</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------</td>
<td>----------------------------------------------------</td>
<td>----------------------------------</td>
<td>---------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Sierra County</td>
<td>6</td>
<td>2</td>
<td>42.9%</td>
<td>24.5% : 61.2%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Socorro County</td>
<td>7</td>
<td>2</td>
<td>36.4%</td>
<td>20.0% : 52.8%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Taos County</td>
<td>19</td>
<td>4</td>
<td>20.8%</td>
<td>12.7% : 29.0%</td>
<td>-7.7%</td>
<td>-45.1% : 55.2%</td>
<td>SN</td>
</tr>
<tr>
<td>Torrance County</td>
<td>7</td>
<td>3</td>
<td>45.7%</td>
<td>29.2% : 62.2%</td>
<td>NA</td>
<td>NA</td>
<td>SN</td>
</tr>
<tr>
<td>Union County</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
<td>SN</td>
</tr>
<tr>
<td>Valencia County</td>
<td>25</td>
<td>9</td>
<td>35.0%</td>
<td>26.5% : 43.4%</td>
<td>1.0%</td>
<td>-23.8% : 33.9%</td>
<td>6.5%</td>
</tr>
</tbody>
</table>

NA – data not available.
SN – data suppressed due to small numbers (15 cases or fewer for the 5-year data period).
Data are for years 2006-2010.
Source: NAACCR – CINA Deluxe Analytic File.
Map of late-stage incidence rates

Figure 2.3 shows a map of late-stage incidence rates for the counties in New Mexico. When the numbers of cases used to compute the rates are small (15 cases or fewer for the five-year data period), those rates are unreliable and are shown as “small numbers” on the map.

*Map with counties labeled is available in Appendix.

Data are for years 2006-2010.

Rates are in cases per 100,000.

Age-adjusted rates are adjusted to the 2000 US standard population.

Source: NAACCR – CINA Deluxe Analytic File.

Figure 2.3. Female breast cancer age-adjusted late-stage incidence rates
Conclusions: Breast cancer late-stage rates, proportions and trends

Late-stage incidence rates and trends

Overall, the breast cancer late-stage incidence rate in the State of New Mexico was significantly lower than that observed in the US as a whole and the late-stage incidence trend was higher than the US as a whole.

For the United States, late-stage incidence rates in Blacks/African-Americans are higher than among Whites. Hispanics/Latinas tend to be diagnosed with late-stage breast cancers more often than Whites. For the State of New Mexico, the late-stage incidence rate was slightly lower among Blacks/African-Americans than Whites, significantly lower among APIs than Whites, and significantly lower among AIANs than Whites. The late-stage incidence rate among Hispanics/Latinas was lower than among Non-Hispanics/Latinas.

The following county had a late-stage incidence rate **significantly higher** than the state as a whole:
- Bernalillo County

The late-stage incidence rate was significantly lower in the following counties:
- McKinley County
- Otero County
- Rio Arriba County

The rest of the counties had late-stage incidence rates and trends that were not significantly different than the state as a whole or did not have enough data available.

Late-stage proportions and trends

Overall, the breast cancer late-stage proportion in the State of New Mexico was slightly lower than that observed in the US as a whole and the late-stage proportion trend was higher than the US as a whole.

For the State of New Mexico, the late-stage proportion was higher among Blacks/African-Americans than Whites, lower among APIs than Whites, and significantly higher among AIANs than Whites. The late-stage proportion among Hispanics/Latinas was about the same as the proportion among Non-Hispanics/Latinas.

The following county had a late-stage proportion **significantly higher** than the state as a whole:
- Lea County

The late-stage proportion was significantly lower in the following counties:
- Rio Arriba County
- Taos County

The rest of the counties had late-stage proportions and trends that were not significantly different than the state as a whole or did not have enough data available.
Mammography Screening

Getting regular screening mammograms (along with treatment if diagnosed) lowers the risk of dying from breast cancer.

Knowing whether or not women are getting regular screening mammograms as recommended by their health care providers can be used to identify groups of women who need help in meeting screening recommendations.

**Why mammograms matter**

Getting regular screening mammograms (and treatment if diagnosed) lowers the risk of dying from breast cancer. Screening mammography can find breast cancer early, when the chances of survival are highest. The US Preventive Services Task Force found that having screening mammograms reduces the breast cancer death rate for women age 40 to 74. The benefit of mammograms is greater for women age 50 to 74. It’s especially high for women age 60 to 69 (Nelson et al., 2009). Because having mammograms lowers the chances of dying from breast cancer, it’s important to know whether women are having mammograms when they should. This information can be used to identify groups of women who should be screened who need help in meeting the current recommendations for screening mammography.

**Mammography recommendations**

Table 2.5 shows some screening recommendations among major organizations for women at average risk.

**Table 2.5. Breast cancer screening recommendations for women at average risk.**

<table>
<thead>
<tr>
<th>American Cancer Society</th>
<th>National Comprehensive Cancer Network</th>
<th>US Preventive Services Task Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informed decision-making with a health care provider at age 40</td>
<td>Mammography every year starting at age 40</td>
<td>Informed decision-making with a health care provider ages 40-49</td>
</tr>
<tr>
<td>Mammography every year starting at age 45</td>
<td></td>
<td>Mammography every 2 years ages 50-74</td>
</tr>
<tr>
<td>Mammography every other year beginning at age 55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*As of October 2015

**Where the data come from**

The Centers for Disease Control and Prevention’s (CDC) Behavioral Risk Factors Surveillance System (BRFSS) collected the data on mammograms that are used in this report. The data
come from interviews with women age 50 to 74 from across the United States. During the
interviews, each woman was asked how long it has been since she has had a mammogram.
BRFSS is the best and most widely used source available for information on mammography
usage among women in the United States, although it does not collect data matching Komen
screening recommendations (i.e., from women age 40 and older).

For some counties, data about mammograms are not shown because not enough women were
included in the survey (less than 10 survey responses).

The data have been weighted to account for differences between the women who were
interviewed and all the women in the area. For example, if 20 percent of the women interviewed
are Hispanic/Latina, but only 10 percent of the total women in the area are Hispanic/Latina,
weighting is used to account for this difference.

**Calculating the mammography screening proportion**

This report uses the mammography screening proportion to show whether the women in an
area are getting screening mammograms when they should.

Mammography screening proportion is calculated from two pieces of information:

- The number of women living in an area whom the BRFSS determines should have
  mammograms (i.e., women age 50 to 74).
- The number of these women who actually had a mammogram during the past two years.

The number of women who had a mammogram is divided by the number who should have had
one. For example, if there are 500 women in an area who should have had mammograms and
250 of those women actually had a mammogram in the past two years, the mammography
screening proportion is 50.0 percent.

**Confidence intervals**

As with incidence and death rates, this report includes the confidence interval of the screening
proportions because numbers are not exact. The confidence interval is shown as two
numbers—a lower value and a higher one. It is very unlikely that the true rate is less than the
lower value or more than the higher value.

In general, screening proportions at the county level have fairly wide confidence intervals. The
confidence interval should always be considered before concluding that the screening
proportion in one county is higher or lower than that in another county.

**Breast cancer screening proportions**

Breast cancer screening proportions are shown in Table 2.6 for:

- United States
- State of New Mexico
- Each county in New Mexico
For the State of New Mexico, proportions are also shown for Whites, Blacks/African-Americans, Asians and Pacific Islanders (API), and American Indians and Alaska Natives (AIAN). In addition, proportions are shown for Hispanics/Latinas and women who are not Hispanic/Latina (regardless of their race).

The proportions in Table 2.6 are based on the number of women age 50 to 74 who reported in 2012 having had a mammogram in the last two years. The data source is the BRFSS, which only surveys women in this age range for mammography usage. The data on the proportion of women who had a mammogram in the last two years have been weighted to account for differences between the women who were interviewed and all the women in the area. For example, if 20.0 percent of the women interviewed are Hispanic/Latina, but only 10.0 percent of the total women in the area are Hispanic/Latina, weighting is used to account for this difference.

**Table 2.6.** Proportion of women ages 50-74 with screening mammography in the last two years, self-report

<table>
<thead>
<tr>
<th>Population Group</th>
<th># of Women Interviewed (Sample Size)</th>
<th># w/ Self-Reported Mammogram</th>
<th>Proportion Screened (Weighted Average)</th>
<th>Confidence Interval of Proportion Screened</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>174,796</td>
<td>133,399</td>
<td>77.5%</td>
<td>77.2% : 77.7%</td>
</tr>
<tr>
<td>New Mexico</td>
<td>3,077</td>
<td>2,198</td>
<td>71.5%</td>
<td>69.5% : 73.4%</td>
</tr>
<tr>
<td>White</td>
<td>2,500</td>
<td>1,785</td>
<td>71.4%</td>
<td>69.2% : 73.5%</td>
</tr>
<tr>
<td>Black/African-American</td>
<td>41</td>
<td>30</td>
<td>65.8%</td>
<td>49.5% : 79.1%</td>
</tr>
<tr>
<td>AIAN</td>
<td>166</td>
<td>120</td>
<td>71.6%</td>
<td>62.1% : 79.5%</td>
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<tr>
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Susan G. Komen®
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<th>Population Group</th>
<th># of Women Interviewed (Sample Size)</th>
<th># w/ Self-Reported Mammogram</th>
<th>Proportion Screened (Weighted Average)</th>
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Data are for 2012.
Source: CDC – Behavioral Risk Factor Surveillance System (BRFSS).

**Conclusions: Breast cancer screening proportions**

The breast cancer screening proportion in the State of New Mexico was **significantly lower** than that observed in the US as a whole.

For the United States, breast cancer screening proportions among Blacks/African-Americans are similar to those among Whites overall. APIs have somewhat lower screening proportions than Whites and Blacks/African-Americans. Although data are limited, screening proportions among AIANs are similar to those among Whites. Screening proportions among Hispanics/Latinas are similar to those among Non-Hispanic Whites and Blacks/African-Americans. For the State of New Mexico, the screening proportion was not significantly different among Blacks/African-Americans and Whites, not significantly different among APIs and Whites, and not significantly different among AIANs and Whites. The screening proportion among Hispanics/Latinas was not significantly different from the proportion among Non-Hispanics/Latinas. None of the counties in the state had substantially different screening proportions than the state as a whole.
Demographic and Socioeconomic Measures

Demographic and socioeconomic data can be used to identify which groups of women are most in need of help and to figure out the best ways to help them.

The report includes basic information about the women in each area (demographic measures) and about factors like education, income, and unemployment (socioeconomic measures) in the areas where they live.

Demographic measures in the report include:
- Age
- Race
- Ethnicity (whether or not a woman is Hispanic/Latina – can be of any race)

It is important to note that the report uses the race and ethnicity categories used by the US Census Bureau, and that race and ethnicity are separate and independent categories. This means that everyone is classified as both a member of one of the four race groups as well as either Hispanic/Latina or Non-Hispanic/Latina.

Socioeconomic measures for the areas covered in this report include:
- Education level
- Income
- Unemployment
- Immigration (how many of the people living in an area were born in another country)
- Use of the English language
- Proportion of people who have health insurance
- Proportion of people who live in rural areas
- Proportion of people who in areas that don’t have enough doctors or health care facilities (medically underserved areas)

Why these data matter
Demographic and socioeconomic data can be used to identify which groups of women need the most help and to figure out the best ways to help them.

Important details about these data
The demographic and socioeconomic data in this report are the most recent data available for US counties. All the data are shown as percentages. However, the percentages weren’t all calculated in the same way.
- The race, ethnicity, and age data are based on the total female population in the area (e.g. the percent of females over the age of 40).
- The socioeconomic data are based on all of the people in the area, not just women.
- Income, education and unemployment data don’t include children. They’re based on people age 15 and older for income and unemployment and age 25 and older for education.
The data on the use of English, called “linguistic isolation”, are based on the total number of households in the area. The Census Bureau defines a linguistically isolated household as one in which all the adults have difficulty with English.

Where the data come from
The demographic and socioeconomic sources of data are:

- Race/ethnicity, age, and sex data come from the US Census Bureau estimates for July 1, 2011.
- Most of the other data come from the US Census Bureau’s American Community Survey program. The most recent data for counties are for 2007 to 2011.
- Health insurance data come from the US Census Bureau’s Small Area Health Insurance Estimates program. The most recent data are for 2011.
- Rural population data come from the US Census Bureau’s 2010 population survey.
- Medically underserved area information comes from the US Department of Health and Human Services, Health Resources and Services Administration. The most recent data are for 2013.

Population characteristics
Race, ethnicity, and age data for the US, the state, and each of the counties in the state is presented in Table 2.7:

- Race percentages for four race groups: White, Black/African-American, American Indian and Alaska Native (AIAN), and Asian and Pacific Islander (API).
- Percentages of women of Hispanic/Latina ethnicity (who may be of any race).
- Percentages of women in three age-groups: 40 and older, 50 and older, and 65 and older.

Table 2.8 shows socioeconomic data for the US, the state, and each of the counties in the state:

- Educational attainment as the percentage of the population 25 years and over that did not complete high school
- Income relative to the US poverty level. Two levels are shown – the percentage of people with income less than the poverty level (below 100 percent) and less than 2.5 times the poverty level (below 250 percent).
- Percentage of the population who are unemployed
- Percentage of the population born outside the US
- Percentage of households that are linguistically isolated (all adults in the household have difficulty with English)
- Percentage living in rural areas
- Percentage living in medically underserved areas as determined by the Health Resources and Services Administration (HRSA)
- Percentage between ages 40 and 64 who have no health insurance
### Table 2.7. Population characteristics – demographics

<table>
<thead>
<tr>
<th>Population Group</th>
<th>White</th>
<th>Black/African-American</th>
<th>AIAN</th>
<th>API</th>
<th>Non-Hispanic/Latina</th>
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Data are for 2011.
Data are in the percentage of women in the population.
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<td>22.8%</td>
</tr>
</tbody>
</table>

Data are in the percentage of people (men and women) in the population.

Source of health insurance data: US Census Bureau – Small Area Health Insurance Estimates (SAHIE) for 2011.
Source of medically underserved data: Health Resources and Services Administration (HRSA) for 2013.
Source of other data: US Census Bureau – American Community Survey (ACS) for 2007-2011.
Conclusions: Population characteristics

Proportionately, the State of New Mexico has a substantially larger White female population than the US as a whole, a substantially smaller Black/African-American female population, a substantially smaller Asian and Pacific Islander (API) female population, a substantially larger American Indian and Alaska Native (AIAN) female population, and a substantially larger Hispanic/Latina female population. The state’s female population is slightly younger than that of the US as a whole. The state’s education level is slightly lower than and income level is slightly lower than those of the US as a whole. The state's unemployment level is slightly smaller than that of the US as a whole. The state has a slightly smaller percentage of people who are foreign born and a slightly larger percentage of people who are linguistically isolated. There are a slightly larger percentage of people living in rural areas, a substantially larger percentage of people without health insurance, and a substantially larger percentage of people living in medically underserved areas.

The following county has a substantially larger API female population percentage than that of the state as a whole:
- Los Alamos County

The following counties have substantially larger AIAN female population percentages than that of the state as a whole:
- Cibola County
- McKinley County
- Rio Arriba County
- Sandoval County
- San Juan County

The following counties have substantially larger Hispanic/Latina female population percentages than that of the state as a whole:
- Chaves County
- Doña Ana County
- Guadalupe County
- Hidalgo County
- Luna County
- Mora County
- Rio Arriba County
- San Miguel County
- Taos County
- Valencia County

The following counties have substantially older female populations than that of the state as a whole:
- Catron County
- Colfax County
The following counties have substantially lower education levels than that of the state as a whole:

- Chaves County
- Cibola County
- De Baca County
- Doña Ana County
- Guadalupe County
- Lea County
- Luna County
- McKinley County
- Rio Arriba County
- Socorro County

The following counties have substantially lower income levels than that of the state as a whole:

- Cibola County
- Doña Ana County
- Guadalupe County
- Luna County
- McKinley County
- Roosevelt County
- San Miguel County
- Socorro County
- Torrance County

The following counties have substantially lower employment levels than that of the state as a whole:

- Cibola County
- Hidalgo County
- Luna County
- Rio Arriba County
- Taos County
- Torrance County
The counties with substantial foreign born and linguistically isolated populations are:
- Doña Ana County
- Luna County

The following counties have substantially larger percentages of adults without health insurance than does the state as a whole:
- Catron County
- Luna County
- McKinley County

**Healthy People 2020 Forecasts**

Healthy People 2020 is a major federal government program that has set specific targets (called “objectives”) for improving Americans’ health by the year 2020.

This report shows whether areas are likely to meet the two Healthy People 2020 objectives related to breast cancer: reducing breast cancer death rate and reducing the number of late-stage breast cancers.

Healthy People 2020 (HP2020) is a major federal government initiative that provides specific health objectives for communities and for the country as a whole (Healthy People 2020, 2010). Many national health organizations use HP2020 targets to monitor progress in reducing the burden of disease and improve the health of the nation. Likewise, Komen believes it is important to refer to HP2020 to see how areas across the country are progressing towards reducing the burden of breast cancer.

HP2020 has several cancer-related objectives, including:
- Reducing women’s death rate from breast cancer.
- Reducing the number of breast cancers that are found at a late-stage.

**The HP2020 objective for breast cancer death rates**
As of the writing of this report, the HP2020 target for the breast cancer death rate is 20.6 breast-cancer related deaths per 100,000 females – a 10 percent improvement in comparison to the 2007 rate.

To see how well counties in New Mexico are progressing toward this target, this report uses the following information:
- County breast cancer death rate data for years 2006 to 2010.
- Estimates for the trend (annual percent change) in county breast cancer death rates for years 2006 to 2010.
- Both the data and the HP2020 target are age-adjusted.
These data are used to estimate how many years it will take for each county to meet the HP2020 objective. Because the target date for meeting the objective is 2020 and 2008 (the middle of the 2006-2010 period) was used as a starting point, a county has 12 years to meet the target.

Death rate data and trends are used to calculate whether an area will meet the HP2020 target, assuming that the trend seen in years 2006 to 2010 continues for 2011 and beyond. The calculation was conducted using the following procedure:

- The annual percent change for 2006-2010 was calculated.
- Using 2008 (the middle of the period 2006-2010) as a starting point, the annual percent change was subtracted from (or added to) the expected death rate (based on the 2006-2010 death rate) for each year between 2010 and 2020.
- These calculated death rates were then compared with the target.
  - If the breast cancer death rate for 2006-2010 was already below the target, it is reported that the area “Currently meets target.”
  - If it would take more than 12 years (2008 to 2020) to meet the target, it is reported that the area would need “13 years or longer” to meet the target.
  - If the rate is currently below the target but the trend is increasing such that the target will no longer be met in 2020, it is reported that the area would need “13 years or longer” to meet the target.
  - In all other cases, the number of years it would take for the area to meet the target is reported. For example, if the area would meet the target in 2016, it would be reported as “eight years,” because it’s eight years from 2008 to 2016.

The HP2020 objective for late-stage breast cancer diagnoses
Another Healthy People 2020 objective is a decrease in the number of breast cancers diagnosed at a late stage. As of the writing of this report, the HP2020 target for late-stage diagnosis rate is 41.0 late-stage cases per 100,000 females. For each county in the state, the late-stage incidence rate and trend are used to calculate the amount of time, in years, needed to meet the HP2020 target, assuming that the trend observed from 2006 to 2010 continues for years 2011 and beyond.

The calculation was conducted using the following procedure:

- The annual percent change for 2006-2010 was calculated.
- Using 2008 (the middle of the period 2006-2010) as a starting point, the annual percent change was subtracted from (or added to) the expected late-stage incidence rate (based on the 2006-2010 rate) for each year between 2010 and 2020.
- The calculated late-stage incidence rates were then compared with the target.
  - If the late-stage incidence rate for 2006-2010 was already below the target, it is reported that the area “Currently meets target.”
  - If it would take more than 12 years (2008 to 2020) to meet the target, it is reported that the area would need “13 years or longer” to meet the target.
If the rate is currently below the target but the trend is increasing such that the target will no longer be met in 2020, it is reported that the area would need “13 years or longer” to meet the target.

In all other cases, the number of years it would take for the area to meet the target is reported.

**Identification of HP2020 breast cancer at-risk areas**

Identifying geographic areas and groups of women with high needs will help develop effective, targeted breast cancer programs.

Priority areas are identified based on the time needed to meet Healthy People 2020 targets for breast cancer.

The purpose of this report is to combine evidence from many credible sources and use it to identify the highest HP2020 breast cancer at-risk areas for breast cancer programs (i.e., the areas of greatest need).

Classification of at-risk areas is based on the time needed to achieve HP2020 targets in each area. These time projections depend on both the starting point and the trends in death rates and late-stage incidence.

Late-stage incidence reflects both the overall breast cancer incidence rate in the population and the mammography screening coverage. The breast cancer death rate reflects the access to care and the quality of care in the healthcare delivery area, as well as cancer stage at diagnosis.

There has not been any indication that either one of the two HP2020 targets is more important than the other. Therefore, the report considers them equally important.

**How counties are classified by need**

Counties are classified as follows.

- Counties that are not likely to achieve either of the HP2020 targets are considered to have the highest needs.
- Counties that have already achieved both targets are considered to have the lowest needs.
- Other counties are classified based on the number of years needed to achieve the two targets.

Table 2.9 shows how counties are assigned to at-risk categories.
### Table 2.9. Needs/At-risk classification based on the projected time to achieve HP2020 breast cancer targets

<table>
<thead>
<tr>
<th>Time to Achieve Death Rate Reduction Target</th>
<th>Time to Achieve Late-stage Incidence Reduction Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 years or longer</td>
<td>Highest</td>
</tr>
<tr>
<td>7-12 yrs.</td>
<td>High</td>
</tr>
<tr>
<td>0 – 6 yrs.</td>
<td>Medium High</td>
</tr>
<tr>
<td>Currently meets target</td>
<td>Medium Low</td>
</tr>
<tr>
<td>Unknown</td>
<td>Highest</td>
</tr>
</tbody>
</table>

If the time to achieve a target cannot be calculated for one of the HP2020 indicators, then the county is classified based on the other indicator. If both indicators are missing, then the county is not classified. This doesn’t mean that the county may not have high needs; it only means that sufficient data are not available to classify the county.

**Healthy People 2020 forecasts and at-risk areas**

The results presented in Table 2.10 help identify which counties have the greatest needs when it comes to meeting the HP2020 breast cancer targets.

- For counties in the “13 years or longer” category, current trends would need to change to achieve the target.
- Some counties may currently meet the target but their rates are increasing and they could fail to meet the target if the trend is not reversed.

Trends can change for a number of reasons, including:

- Improved screening programs could lead to breast cancers being diagnosed earlier, resulting in a decrease in both late-stage incidence rates and death rates.
- Improved socioeconomic conditions, such as reductions in poverty and linguistic isolation could lead to more timely treatment of breast cancer, causing a decrease in death rates.

The data in this table should be considered together with other information on factors that affect breast cancer death rates such as screening percentages and key breast cancer death determinants such as poverty and linguistic isolation.
### Table 2.10. Breast cancer at-risk area for New Mexico with predicted time to achieve the HP2020 breast cancer targets and key population characteristics

<table>
<thead>
<tr>
<th>County</th>
<th>Priority</th>
<th>Predicted Time to Achieve Death Rate Target</th>
<th>Predicted Time to Achieve Late-stage Incidence Target</th>
<th>Key Population Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eddy County</td>
<td>Highest</td>
<td>13 years or longer</td>
<td>13 years or longer</td>
<td>Medically underserved</td>
</tr>
<tr>
<td>Lincoln County</td>
<td>Highest</td>
<td>SN</td>
<td>13 years or longer</td>
<td>Older, rural, medically underserved</td>
</tr>
<tr>
<td>Luna County</td>
<td>Highest</td>
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<td>13 years or longer</td>
<td>%Hispanic/Latina, education, poverty, employment, foreign, language, rural, insurance, medically underserved</td>
</tr>
<tr>
<td>Otero County</td>
<td>Highest</td>
<td>13 years or longer</td>
<td>13 years or longer</td>
<td>Rural</td>
</tr>
<tr>
<td>Sierra County</td>
<td>Highest</td>
<td>NA</td>
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</tr>
<tr>
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<td>Doña Ana County</td>
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<tr>
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</tr>
<tr>
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<td>Medium</td>
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<td>13 years or longer</td>
<td></td>
</tr>
<tr>
<td>Taos County</td>
<td>Medium</td>
<td>13 years or longer</td>
<td>Currently meets target</td>
<td>%Hispanic/Latina, employment, rural</td>
</tr>
<tr>
<td>Valencia County</td>
<td>Medium</td>
<td>13 years or longer</td>
<td>Currently meets target</td>
<td>%Hispanic/Latina, medically underserved</td>
</tr>
<tr>
<td>Chaves County</td>
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<td>8 years</td>
<td>Currently meets target</td>
<td>%Hispanic/Latina, education, poverty, foreign, medically underserved</td>
</tr>
<tr>
<td>Cibola County</td>
<td>Medium Low</td>
<td>SN</td>
<td>1 year</td>
<td>%AIAN, education, poverty, employment, rural, medically underserved</td>
</tr>
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<td>Los Alamos County</td>
<td>Medium Low</td>
<td>SN</td>
<td>1 year</td>
<td>%API</td>
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<tr>
<td>Torrance County</td>
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<td>SN</td>
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</tr>
<tr>
<td>Curry County</td>
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<td>1 year</td>
<td>Currently meets target</td>
<td>Medically underserved</td>
</tr>
<tr>
<td>Grant County</td>
<td>Lowest</td>
<td>Currently meets target</td>
<td>Currently meets target</td>
<td>Older, rural</td>
</tr>
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</table>

**Notes:**
- HP2020: Healthy People 2020
- SN: Specified Not Available
- %: Percentage
- AIAN: American Indian and Alaska Native
<table>
<thead>
<tr>
<th>County</th>
<th>Priority</th>
<th>Predicted Time to Achieve Death Rate Target</th>
<th>Predicted Time to Achieve Late-stage Incidence Target</th>
<th>Key Population Characteristics</th>
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<td>Rio Arriba County</td>
<td>Lowest</td>
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<td>Currently meets target</td>
<td>%AIAN, %Hispanic/Latina, education, employment, rural, medically underserved</td>
</tr>
<tr>
<td>San Miguel County</td>
<td>Lowest</td>
<td>NA</td>
<td>Currently meets target</td>
<td>%Hispanic/Latina, poverty, rural, medically underserved</td>
</tr>
<tr>
<td>Catron County</td>
<td>Undetermined</td>
<td>SN</td>
<td>SN</td>
<td>Older, rural, insurance, medically underserved</td>
</tr>
<tr>
<td>Colfax County</td>
<td>Undetermined</td>
<td>SN</td>
<td>SN</td>
<td>Older, rural</td>
</tr>
<tr>
<td>De Baca County</td>
<td>Undetermined</td>
<td>SN</td>
<td>SN</td>
<td>Older, education, rural</td>
</tr>
<tr>
<td>Guadalupe County</td>
<td>Undetermined</td>
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<td>SN</td>
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</tr>
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<td>SN</td>
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<td>Union County</td>
<td>Undetermined</td>
<td>SN</td>
<td>SN</td>
<td>Older, rural, medically underserved</td>
</tr>
</tbody>
</table>

NA – data not available.
SN – data suppressed due to small numbers (15 cases or fewer for the 5-year data period).
**Map of intervention at-risk areas**

Figure 2.4 shows a map of the intervention categories for the counties in New Mexico. When both of the indicators used to establish a category for a county are not available, the priority is shown as “undetermined” on the map.

*Map with counties labeled is available in Appendix.*

**Figure 2.4. Intervention categories**
Data Limitations
The quantitative data in this report have been gathered from credible sources and uses the most current data available at the time.

Recent data
The most recent data available were used but, for cancer incidence and death rates, these data are still several years behind. The most recent breast cancer incidence and death rates available in 2013 were data from 2010. For the US as a whole and for most states, breast cancer incidence and death rates do not often change rapidly. Rates in individual counties might change more rapidly. In particular if a cancer control program has been implemented in 2011-2013, any impact of the program on incidence and death rates would not be reflected in this report.

Over the planning period for this report (2015 to 2019), the data will become more out-of-date. The trend data included in the report can help estimate more current values. Also, the State Cancer Profiles Web site (http://statecancerprofiles.cancer.gov/) is updated annually with the latest cancer data for states and can be a valuable source of information about the latest breast cancer rates for your community.

Data availability
For some areas, data might not be available or might be of varying quality. Cancer surveillance programs vary from state to state in their level of funding and this can impact the quality and completeness of the data in the cancer registries and the state programs for collecting death information. There are also differences in the legislative and administrative rules for the release of cancer statistics for studies such as these. These factors can result in missing data for some of the data categories in this report.

Small populations
Areas with small populations might not have enough breast cancer cases or breast cancer deaths each year to support the generation of reliable statistics. Because breast cancer has relatively good survival rates, breast cancer deaths occur less often in an area than breast cancer cases. So it may happen that breast cancer incidence rates are reported for a county with a small number of people but not breast cancer death rates.

The screening mammography data have a similar limitation because they are based on a survey of a small sample of the total population. So screening proportions may not be available for some of the smaller counties. Finally, it may be possible to report a late-stage incidence rate but not have enough data to report a late-stage trend and to calculate the number of years needed to reach the HP2020 late-stage target.

Data on population characteristics were obtained for all counties, regardless of their size. These data should be used to help guide planning for smaller counties where there are not enough specific breast cancer data to calculate a priority based on HP2020 targets.
Other cancer data sources
If a person has access to other sources of cancer data for their state, they might notice minor differences in the values of the data, even for the same time period. There are often several sources of cancer statistics for a given population and geographic area. State registries and vital statistics offices provide their data to several national organizations that compile the data. This report used incidence data compiled by the North American Association of Central Cancer Registries (NAACCR) and the National Cancer Institute (NCI) and death data compiled by the National Center for Health Statistics (NCHS).

Individual state registries and health departments often publish their own cancer data. These data might be different from the data in this report for several reasons. The most common reason is differences in the timing of when cases are reported.

Sometimes, a small number of cancer cases are reported to cancer registries with as much as a five year delay. Because of this delay, counts of cancer cases for a particular year may differ. In addition, data need to be checked to see whether the same case might have been counted twice in different areas. If a case is counted twice, one of the two reports is deleted. These small adjustments may explain small inconsistencies in the number of cases diagnosed and the rates for a specific year. However, such adjustments shouldn’t have a substantial effect on cancer rates at the state level.

Specific groups of people
Data on cancer rates for specific racial and ethnic subgroups such as Somali, Hmong, or Ethiopian are not generally available. Records in cancer registries often record where a person was born if they were born in a foreign country. However, matching data about the population in an area are needed to calculate a rate (the number of cases per 100,000 people) and these matching population data are often not available.

Inter-dependent statistics
The various types of breast cancer data in this report are inter-dependent. For example, an increase in screening can result in fewer late-stage diagnoses and fewer deaths. However, an increase in screening mammography can also result in an increase in breast cancer incidence – simply because previously undetected cases are now being diagnosed. Therefore, caution is needed in drawing conclusions about the causes of changes in breast cancer statistics.

It is important to consider possible time delay between a favorable change in one statistic such as screening and the impact being reflected in other statistics such as the death rate. There can take 10 to 20 years for favorable changes in breast cancer control activities to be reflected in death rates.

Missing factors
There are many factors that impact breast cancer risk and survival for which quantitative data are not available. Some examples include family history, genetic markers like HER2 and BRCA, other medical conditions that can complicate treatment, and the level of family and
community support available to the patient. Good quantitative data are not available on how factors such as these vary from place to place. The quantitative data in this report should be supplemented by qualitative information about these other factors from your communities whenever possible.

**Trend limitations**
The calculation of the years needed to meet the HP2020 objectives assume that the current trends will continue until 2020. However, the trends can change for a number of reasons. For example, breast cancer programs, if they are successful, should change the trends. In fact, this is the primary goal of breast cancer programs.

However, trends could also change from differences in the population characteristics of the area such as shifts in the race or ethnicity of the people in the area or changes in their general socioeconomics. Areas with high migration rates, either new people moving into an area or existing residents moving elsewhere, are particularly likely to see this second type of change in breast cancer trends.

**Late-stage data and un-staged cases**
Not all breast cancer cases have a stage indication. Breast cancer might be suspected in very elderly women and a biopsy may not be performed. Also, some breast cancer cases may be known only through an indication of cause-of-death on a death certificate. When comparing late-stage statistics, it is assumed that the rates of unknown staging don't change and are similar between counties. This may not be a good assumption when comparing data between urban and rural areas or between areas with younger and older populations. It is also assumed that the size and types of unknown cases do not change over time when the trends in late-stage statistics are calculated.

In this report, both late-stage incidence rates and late-stage proportions are provided. These two statistics differ in how un-staged cases are represented. With late-stage incidence rates, un-staged cases are excluded from the numerator (the number of late-stage cases) but are included in the denominator (total number of people in the population). With late-stage proportions, un-staged cases are excluded from both the numerator (the number of late-stage cases) and the denominator (number of staged cases). These differences can explain why comparisons using the two late-stage statistics may get different results.

**Conclusions: Healthy People 2020 Forecasts**

**Breast Cancer Death Rates**
The State of New Mexico as a whole is likely to achieve the HP2020 death rate target. The state had a base rate of 20.9 breast cancer deaths per 100,000 females per year from 2006 to 2010 (age-adjusted). This rate coupled with a desirable direction (decrease) in the recent death rate trend, indicates that the State of New Mexico will likely achieve the HP2020 target of 20.6 female breast cancer deaths per 100,000.
The following counties **currently meet** the HP2020 breast cancer death rate target of 20.6:

- Grant County
- Lea County
- McKinley County
- Rio Arriba County
- San Juan County
- Santa Fe County

The following counties are **likely to miss** the HP2020 breast cancer death rate target unless the death rate falls at a faster rate than currently estimated:

- Eddy County
- Otero County
- Taos County
- Valencia County

Because data for small numbers of people are not reliable, it can’t be predicted whether Catron County, Cibola County, Colfax County, De Baca County, Guadalupe County, Harding County, Hidalgo County, Lincoln County, Los Alamos County, Luna County, Mora County, Quay County, Roosevelt County, San Miguel County, Sierra County, Socorro County, Torrance County and Union County will reach the death rate target. The remaining counties are likely to achieve the target by 2020 or earlier.

**Breast Cancer Late-Stage Incidence Rates**

The State of New Mexico as a whole is **likely to miss** the HP2020 late-stage incidence rate target. The state had a base rate of 37.4 new late-stage cases per 100,000 females per year from 2006 to 2010 (age-adjusted). This rate coupled with the recent late-stage incidence rate trend, indicates that the State of New Mexico is likely to miss the HP2020 target of 41.0 new late-stage cases per 100,000.

The following counties **currently meet** the HP2020 late-stage incidence rate target of 41.0:

- Chaves County
- Curry County
- Grant County
- Lea County
- McKinley County
- Rio Arriba County
- San Miguel County
- Taos County
- Valencia County
The following counties are **likely to miss** the HP2020 late-stage incidence rate target unless the late-stage incidence rate falls at a faster rate than currently estimated:

- Bernalillo County
- Doña Ana County
- Eddy County
- Lincoln County
- Luna County
- Otero County
- Sandoval County
- San Juan County
- Santa Fe County
- Sierra County
- Socorro County

Because data for small numbers of people are not reliable, it can’t be predicted whether Catron County, Colfax County, De Baca County, Guadalupe County, Harding County, Hidalgo County, Mora County, Quay County, Roosevelt County and Union County will reach the late-stage incidence rate target. The remaining counties are likely to achieve the target by 2020 or earlier.

**HP2020 Conclusions**

*Highest at risk areas*

Six counties in the State of New Mexico are in the highest at risk category. Two of the six, Eddy County and Otero County, are not likely to meet either the death rate or late-stage incidence rate HP2020 targets. Four of the six, Lincoln County, Luna County, Sierra County and Socorro County, are not likely to meet the late-stage incidence rate HP2020 target.

Death trends in Eddy County (2.3 percent per year) are significantly less favorable than the state as a whole (-1.7 percent per year).

Lincoln County has an older population. Luna County has a relatively large Hispanic/Latina population, low education levels, high poverty levels, high unemployment, a relatively large foreign-born population and a relatively large number of households with little English. Sierra County has an older population. Socorro County has low education levels, high poverty levels and a relatively large number of households with little English.

*Medium high at risk areas*

Three counties in the State of New Mexico are in the medium high at risk category. All of the three, Bernalillo County, Doña Ana County and Sandoval County, are not likely to meet the late-stage incidence rate HP2020 target.

The age-adjusted incidence rates in Bernalillo County (117.9 per 100,000) are significantly higher than the state as a whole (108.8 per 100,000). The age-adjusted late-stage incidence rates in Bernalillo County (42.4 per 100,000) are significantly higher than the state as a whole (37.4 per 100,000).
Doña Ana County has a relatively large Hispanic/Latina population, low education levels, high poverty levels, a relatively large foreign-born population and a relatively large number of households with little English. Sandoval County has a relatively large AIAN population.
This section of the state report tells the story of the breast cancer continuum of care and the delivery of quality health care in the community. Key to this section is the observation of potential strengths and weaknesses in the health care system that could compromise a women's health as she works her way through the continuum of care (e.g., screening, diagnosis, treatment and follow-up/survivorship services).

**Health Systems Analysis Data Sources**

**Breast Cancer Programs and Services**

An inventory of breast cancer programs and services in the state were collected through a comprehensive internet search to identify the following types of health care facilities or community organizations that may provide breast cancer related services:

- Hospitals- Public or private, for-profit or nonprofit.
- Community Health Centers (CHC) - Community based organizations that provide primary care regardless of ability to pay; include Federally Qualified Health Centers (FQHCs) and FQHC look-alikes.
- Free Clinic- Free and charitable clinics are safety-net health care organizations that utilize a volunteer/staff model and restrict eligibility for their services to individuals who are uninsured, underinsured and/or have limited or no access to primary health care.
- Health Department- Local health department run by government entity (e.g. county, city) focused on the general health of its citizens.
- Title X Provider- Family planning centers that also offer breast and cervical cancer screening. Services are provided through state, county, and local health departments; community health centers; Planned Parenthood centers; and hospital-based, school-based, faith-based, other private nonprofits.
- Other- Any institution that is not a hospital, CHC, free clinic, health department or Title X provider (e.g., FDA certified mammography center that is not a hospital/CHC, community organization that is not a medical provider but does connect people to services or provide support services such as financial/legal assistance).

Information collected through these means was inputted into a Health Systems Analysis spreadsheet by service type: screening, diagnostics, treatment, and support. The screening service category encompasses clinical breast exams (CBEs), screening mammograms, mobile mammography units, ultrasounds, and patient navigation. The category of diagnostics includes diagnostic mammograms, ultrasounds, biopsy, MRI, and patient navigation. Treatment modalities counted were chemotherapy, radiation, surgery consultations, surgery, reconstruction, and patient navigations. Support encompasses a broad range of services including support groups, wigs, mastectomy wear, individual counseling/psychotherapy, exercise/nutrition programs, complementary therapies, transportation assistance, financial assistance for cost of living expenses, as well as end of life care, legal services, and education.

In order to understand the effect available health systems have on the state, the identified resources were plotted on an asset map by Susan G. Komen Information Technology (IT) staff to visually illustrate the services (or lack thereof) available in the state. While every effort was
made to ensure these findings were comprehensive, it may be possible that a facility or organization was missed or has since closed; as a result, these findings should not be considered exhaustive and/or final.

**Quality of Care Indicators**
For all health care facilities and hospitals, an additional layer of analysis was applied using quality of care indicators. Quality of care indicators are quantifiable measures related to the process of care, outcomes of care, and patient satisfaction levels from a particular program and/or organization. Multiple national organizations have developed key quality of care indicators for breast health services, and if an organization meets all of the key indicators they are designated an “accredited” health care institution. These accreditations outline key quality of care indicators health care institutions must meet in order to obtain and/or retain accreditation status. The following five accreditations were considered high quality of care indicators in the state’s health system analysis.

- **FDA Approved Mammography Facilities**
The Food and Drug Administration (FDA) passed the Mammography Quality Standards Act (MQSA) in 1992 to ensure facilities meet standards for performing high quality mammography. Accreditation bodies administer the MQSA to evaluate and accredit mammography facilities based upon quality standards. These quality standards are extensive and outline how a facility can operate. For instance, physicians interpreting mammograms must be licensed to practice medicine, be certified to interpret radiological procedures including mammography, and must complete continuing experience or education to maintain their qualifications (US Food and Drug Administration [US FDA], 2014). Radiologic technologists must also be trained and licensed to perform general radiographic procedures and complete continuing experience or education to maintain their qualifications. Facilities are required to maintain personnel records to document the qualifications of all personnel who work at the facility such as physicians, radiologic technologists or medical physicists.

All radiographic equipment used in FDA approved mammography centers must be specifically designed for mammography and must not be equipment designed for general purpose or equipment that has been modified with special attachments for mammography. Equipment regulations also apply to compression paddles, image receptor size, light fields and magnification, focal spot selection, x-ray film, film processing solutions, lighting and film masking devices. Facilities must also prepare a written report of the results of each mammography examination performed under its certificate. The report must include the name of the patient and an additional patient identifier, date of examination, the name of the interpreting physician, and the overall final assessment of findings. Findings from mammograms are classified into four different categories, including negative, benign, probably benign, and highly suggestive of malignancy. An assessment can also be assigned as incomplete indicating additional imaging evaluation is needed.
FDA approved mammography facilities are obligated to communicate the results of mammograms to the patient and the patient’s primary care provider in a written report within 30 days. Each facility must also maintain mammography films and reports in a permanent medical record for a period of no less than five years or longer if mandated by State or local law. Patients can request to permanently or temporarily transfer the original mammograms and patient report to a medical institution, physician, health care provider, or to the patient directly. Any fees for providing transfer services shall not exceed the documented costs associated with this service.

A quality assurance program must be established at each facility to ensure safety, reliability, clarity, and accuracy of mammography services. At least once a year, each facility undergoes a survey by a medical physicist that includes the performance of tests to ensure the facility meets quality assurance requirements. The FDA evaluates the performance of each certificated agency annually through the use of performance indicators that address the adequacy of program performance in certification, inspection, and enforcement activities. Only facilities that are accredited by FDA accrediting bodies or are undergoing accreditation by accrediting bodies may obtain a certificate from the FDA to legally perform mammography (US FDA, 2014). Only FDA approved mammography centers were included in the health system analysis for each target community.

- **American College of Surgeons Commission on Cancer Certification (CoCC)**
  Applying and sustaining an American College of Surgeons Commission on Cancer Certification (CoCC) is a voluntary effort a cancer program can undertake to ensure a range of services necessary to diagnose and treat cancer, as well as rehabilitate and support patients and their families, are available (American College of Surgeons [ACoS], 2013). There are various categories of cancer programs, and each facility is assigned a category based on the type of facility or organization, services provided, and cases accessioned or recorded. Program categories include: Integrated Network Cancer Program (INCP); NCI-Designated Comprehensive Cancer Center Program (NCIP); Academic Comprehensive Cancer Program (ACAD); Veterans Affairs Cancer Program (VACP); Comprehensive Community Cancer Program (CCCP); Hospital Associate Cancer Program (HACP); Pediatric Cancer Program (PCP); and Freestanding Cancer Center Program (FCCP) (ACoS, 2013).

  CoCC cancer programs are surveyed every three years. In preparation for survey, the cancer committee for that facility must assess program compliance with the requirements for all standards outlined in *Cancer Program Standards 2012: Ensuring Patient-Centered Care*. An individual must then review and complete an online Survey Application Record (SAR). In addition, the individual responsible for completing the SAR will perform a self-assessment and rate compliance with each standard using the Cancer Program Ratings Scale.
The surveyor’s role is to assist in accurately defining the standards and verifying the facility’s cancer program is in compliance. To accomplish this task, the surveyor will meet with the cancer committee, cancer registry staff and cancer liaison physicians, review pathology reports, and attend a cancer conference to observe the multidisciplinary patient management discussions and confirm treatment is planned using nationally recognized, evidence-based treatment guidelines. CoCC-accredited programs must also submit documentation of cancer program activities with the SAR using multiple sources such as policies, procedures, manuals, and grids.

Each cancer program standard is rated on a compliance scale that consists of the score of (1+) commendation, (1) compliance, (5) noncompliance, and (8) not applicable. A deficiency is defined as any standard with a rating of five. A deficiency in one or more standards will affect the accreditation award. Commendation ratings (+1) are valid for eight standards, can only be earned at the time of survey, and are used to determine the accreditation award and award level (bronze, silver, or gold). Accreditation awards are based on consensus ratings by the cancer program surveyor, CoCC staff and when necessary, the Program Review Subcommittee. A program can earn one of the following Accreditation Awards; three-year with commendation accreditation, three-year accreditation, three-year accreditation with contingency, provisional accreditation, or no accreditation. Programs are surveyed at three-year intervals from the date of survey.

Award notification takes place within 45 days following the completed survey and will include The Accredited Cancer Program Performance Report. This report includes a comprehensive summary of the survey outcome and accreditation award, the facility’s compliance rating for each standard, an overall rating compared with other accredited facilities nation- and state-wide, and the category of accreditation. In addition, a narrative description of deficiencies that require correction, suggestions to improve or enhance the program, and commendations awarded are also included.

- **American College of Surgeons National Accreditation Program for Breast Centers (NAPBC)**
  The American College of Surgeons’ National Accreditation Program for Breast Centers (NAPBC) is a consortium of national professional organizations focused on breast health and dedicated to improving quality of care and outcomes for patients with diseases of the breast (ACoS, 2014). The NAPBC utilizes evidence-based standards as well as patient and provider education, and encourages leaders from major disciplines to work together to diagnose and treat breast disease. The NAPBC has defined 28 program standards and 17 program components of care that provide the most efficient and contemporary care for patients diagnosed with diseases of the breast. Quality standards cover a range of topics and levels of operation including leadership, clinical management, research, community outreach, professional education, and quality improvement (ACoS, 2014).
To be considered for initial survey, breast center leadership must ensure clinical services, interdisciplinary/multidisciplinary conference(s), and quality management programs are in place and ensure a facility can meet the requirements outlined for all standards. Critical standards include having breast program leadership that is responsible and accountable for services and also establishes, monitors, and evaluates the interdisciplinary breast cancer conference frequency, multidisciplinary and individual attendance, prospective case presentation, and total case presentation annually. In addition, the interdisciplinary patient management standard requires patient management to be conducted by an interdisciplinary team after a patient is diagnosed with breast cancer.

Breast center leadership then completes a pre-application to participate and pay for the survey fee within 30 days of the receipt from the NAPBC. To prepare for a survey, the breast center must complete a Survey Application Record (SAR) prior to the on-site visit. The SAR is intended to capture information about the breast center activity and includes portions of individuals to perform a self-assessment and rate compliance with each standard using a provided rating system. The NAPBC will then complete a survey of the facility within six months. A survey of a facility typically includes a tour of the center, a meeting between the surveyor and breast center leadership and staff, chart and medical record review, and the attendance of a breast conference.

Accreditation awards are based on consensus ratings by the surveyor, the NAPBC staff, and, if required, the Standards and Accreditation Committee. Accreditation award is based on compliance with 28 standards. A three year, full accreditation is granted to centers that comply with 90 percent or more of the standards with resolution of all deficient standards documented within 12 months of survey. Centers that do not resolve all deficiencies within the 12 month period risk losing NAPBC accreditation status and are required to reapply. Once a performance report and certificate of accreditation are issued, these centers are surveyed every three years.

A three-year contingency accreditation is granted to centers that meet less than 90 percent, but more than 75 percent of the standards at the time of survey. The contingency status is resolved by the submission of documentation of compliance within 12 months from the date of survey. A performance report and certificate of accreditation are issued, and these facilities are surveyed every three years. An accreditation can be deferred if a center meets less than 75 percent of the standards at the time of the survey. The deferred status is resolved by the submission of documentation of compliance within 12 months from the date of survey. Based on the resolution of deficiencies and survey results, a performance report and certificate of accreditation are issued, and these facilities are surveyed every three years. For the complete list of NAPBC quality standards, visit: http://www.napbc-breast.org/standards/standards.html.
- **American College of Radiology Breast Imaging Centers of Excellence (BICOE)**
  The American College of Radiology (ACR) Breast Imaging Centers of Excellence (BICOE) designation is awarded to breast imaging centers that seek and earn accreditation in the ACR’s entire voluntary breast imaging accreditation programs and modules, in addition to the Mandatory Mammography Accreditation Program (MMAP) (American College of Radiology [ACR], n.d.). The ACR MMAP is designed to provide facilities with peer review and constructive feedback on staff qualifications, equipment, quality control, quality assurance, image quality, and radiation dose. This ensures facilities comply with the 1992 Mammography Quality Standards Act (MQSA), which requires all mammography facilities be accredited. In order to receive the ACR’s BICOE designation, a facility must be accredited by the ACR in mammography, stereotactic breast biopsy, breast ultrasound, and effective January 1, 2016, breast MRI.

  The ACR will send a BICOE certificate to each facility that fulfills the necessary requirements. The designation remains in effect as long as all breast imaging facilities (an organizations home location or a different location) remain accredited in all required breast imaging services provided. If the center or facility neglects to renew any of its accreditations or fails during renewal, the facility will be notified that it no longer has the BICOE designation and the BICOE certificate must be removed from public display. Some centers will need to specifically request a BICOE designation, while in most cases the ACR will consult its database and automatically provide an eligible center a BICOE certificate if the center is at a single physical location and meets all breast imaging requirements (ACR, n.d.).

- **National Cancer Institute Designated Cancer Centers**
  A National Cancer Institute (NCI) designated Cancer Center is an institution dedicated to researching the development of more effective approaches to the prevention, diagnosis, and treatment of cancer (National Cancer Institute [NCI], 2012). A NCI-designated Cancer Center conducts cancer research that is multidisciplinary and incorporates collaboration between institutions and university medical centers. This collaboration also provides training for scientists, physicians, and other professionals interested in specialized training or board certification in cancer-related disciplines. NCI-designated Cancer Centers also provide clinical programs that offer the most current forms of treatment for various types of cancers and typically incorporate access to clinical trials of experimental treatments. In addition, public education and community outreach regarding cancer prevention and screening are important activities of a NCI-designated Cancer Center (NCI, 2012).

**HRSA Shortage Designations**
The US Department of Health and Human Services-Health Resources and Services Administration (HRSA) designations for Health Professional Shortage Areas (HSPAs) and Medically Underserved Areas/Populations (MUAs/Ps) were used to identify areas within the state where individuals may have inadequate access to primary care providers and facilities (US Department of Health and Human Services, n.d.).
- **Health Professional Shortage Areas (HPSAs)** are designated by HRSA as having shortages of primary medical care, dental or mental health providers and may be geographic (a county or service area), population (e.g. low income or Medicaid eligible) or facilities (e.g. federally qualified health center or other state or federal prisons).

- **Medically Underserved Areas/Populations (MUA/Ps)** are areas or populations designated by HRSA as having too few primary care providers, high infant death, high poverty or a high elderly population.

**Breast Cancer Continuum of Care**

The Breast Cancer Continuum of Care (CoC), shown in Figure 3.1, is a model that shows how a woman typically moves through the health care system for breast care. A woman would ideally move through the CoC quickly and seamlessly, receiving timely, quality care in order to have the best outcomes. Education can play an important role throughout the entire CoC.

While a woman may enter the continuum at any point, ideally, a woman would enter the CoC by getting screened for breast cancer – with a clinical breast exam or a screening mammogram. If the screening test results are normal, she would loop back into follow-up care, where she would get another screening exam at the recommended interval. Education plays a role in both providing education to encourage women to get screened and reinforcing the need to continue to get screened routinely thereafter.

If a screening exam resulted in abnormal results, diagnostic tests would be needed, possibly several, to determine if the abnormal finding is in fact breast cancer. These tests might include a diagnostic mammogram, breast ultrasound, or biopsy. If the tests were negative (or benign) and breast cancer was not found, she would go into the follow-up loop and return for screening at the recommended interval. The recommended intervals may range from three to six months for some women to 12 months for most women. Education plays a role in communicating the importance of proactively getting test results, keeping follow-up appointments, and understanding what everything means. Education can empower a woman and help manage anxiety and fear.

The woman would proceed to treatment if breast cancer is diagnosed. Education can cover such topics as treatment options, how a pathology reports determines the best options for
treatment, understanding side effects and how to manage them, and helping to formulate questions a woman may have for her providers.

For some breast cancer patients, treatment may last a few months and for others, it may last years. While the CoC model shows that follow-up and survivorship come after treatment ends, they actually may occur at the same time. Follow-up and survivorship may include things like navigating insurance issues, locating financial assistance, symptom management, such as pain, fatigue, sexual issues, bone health, etc. Education may address topics such as making healthy lifestyle choices, long term effects of treatment, managing side effects, the importance of follow-up appointments, and communication with their providers. Most women will return to screening at a recommended interval after treatment ends, or for some, during treatment (such as those taking long term hormone therapy).

There are often delays in moving from one point of the continuum to another – at the point of follow-up of abnormal screening exam results, starting treatment, and completing treatment – that can all contribute to poorer outcomes. There are also many reasons why a woman does not enter or continue in the breast cancer CoC. These barriers can include things such as lack of transportation, system issues including long waits for appointments and inconvenient clinic hours, language barriers, fear, and lack of information or the wrong information (myths and misconceptions). Education can address some of these barriers and help a woman enter and progress through the CoC more quickly.

**Health Systems Analysis Findings**

In the State of New Mexico there were 210 locations found to provide breast cancer services varying between screening, diagnostic, treatment, and survivorship (Figure 3.2). Most locations only provided screening services, a total of 210. There were 36 locations in the state that provide diagnostic services and 21 locations providing treatment services. In the state there were 14 locations that provided survivorship services or care. Identified facilities that provide mammography services were all accredited by the Federal Drug Administration. There were four locations that were accredited by the American College of Surgeons Commission on Cancer, six locations accredited by the American College of Radiology as a Breast Imaging Center of Excellence and two locations accredited as an American College of Surgeons NAPBC program. There was one location designated as a NCI Cancer Center.

The following counties are designated as a Medically Underserved Area/Population and/or a Health Professional Shortage Area for primary care: Bernalillo, Catron, Chaves, Cibola, Colfax, Curry, De Baca, Dona Ana, Eddy, Grant, Guadalupe, Harding, Hidalgo, Lea, Lincoln, Luna, McKinley, Mora, Otero, Quay, Rio Arriba, Roosevelt, San Juan, San Miguel, Sandoval, Santa Fe, Sierra, Socorro, Taos, Torrance, Union and Valencia.
Figure 3.2. Breast cancer services available in New Mexico
In recent years, public policies pertaining to breast cancer have undergone substantial changes that will affect at-risk women across the United States. States have responded differently to the public policy developments concerning access to services within the breast cancer continuum of care (screening, diagnostic, treatment and survivorship care); therefore, women are dependent on their state’s agenda and action on health care reform. This section of the state report will focus on the following public policies that affect breast cancer care in the state: National Breast and Cervical Cancer Early Detection Program, State Comprehensive Cancer Control Plan, the Affordable Care Act and Medicaid Expansion.

**Susan G. Komen Advocacy**

Susan G. Komen is the voice for the more than three million breast cancer survivors and those who love them, working to ensure that the fight against breast cancer is a priority among policymakers in Washington, D.C., and every Capitol across the country.

Each year, Komen works to identify, through a transparent and broad-based, intensive vetting and selection process, the policy issues that have the greatest potential impact on Komen’s mission. This process includes the collection of feedback from Komen Headquarters leadership, policy staff, and subject matter experts; Komen Affiliates from across the country; advisory groups including the Komen Advocacy Advisory Taskforce (KAAT), Advocates in Science (AIS), and Komen Scholars; and other stakeholders with a vested interest in breast cancer-related issues.

The selected issues are the basis for Komen’s state and federal advocacy work in the coming year. While the priority issues may change on an annual basis, the general focus for Komen’s advocacy work is to ensure high-quality, affordable care for all, though access to services and an increased investment in research to ensure the continued development of the latest technologies and treatments. For more information on Komen’s current Advocacy Priorities, please visit: [http://ww5.komen.org/WhatWeDo/Advocacy/Advocacy.html](http://ww5.komen.org/WhatWeDo/Advocacy/Advocacy.html).

**National Breast and Cervical Cancer Early Detection Program**

The United States Congress passed the Breast and Cervical Cancer Mortality Prevention Act of 1990, which directed the Centers for Disease Control and Prevention (CDC) to create the National Breast and Cervical Cancer Early Detection Program (NBCCEDP) to improve access to screening (CDC, 2015a). NBCCEDP is a federal-state partnership which requires states to satisfy a 1:3 matching obligation ($1 in state funds or in-kind funds for every $3 in federal funds provided to that state) (CDC, n.d.). Currently, the NBCCEDP funds all 50 states, the District of Columbia, five US territories, and 11 American Indian/Alaska Native tribes or tribal organizations, to provide the following services to women (CDC, 2015a; CDC, n.d.):

- Breast and cervical cancer screening for women with priority to low-income women.
- Providing appropriate follow-up and support services (i.e., case management and referrals for medical treatment).
- Developing and disseminating public information and education programs.
- Improving the education, training and skills of health professionals.
- Monitoring screening procedure quality and interpretation.

To be eligible to receive NBCCEDP services, uninsured and underinsured women must be at or below 250 percent of the federal poverty level and between the ages of 40 to 64 for breast cancer screening (CDC, 2015a; CDC, n.d.). Uninsured women between the ages of 50 and 64 who are low-income (up to 250 percent federal poverty level) and who have not been screened in the past year are a priority population for NBCCEDP (CDC, n.d.).

While federal guidelines are provided by the CDC, there are some variations among states, tribal organizations and territories (CDC, 2015b):
- Program funding, clinical costs and additional eligibility guidelines vary by state, tribal organization and territory which influence the number of services that can be provided.
- Flexibility of the program allows each state, tribal organization and territory to adopt an operational model that is appropriate for their respective public health infrastructure and legislative polices.

Since the launch of the program in 1991, NBCCEDP has served more than 4.8 million women providing over 12 million breast and cervical cancer screening services that has resulted in more than 67,900 women being diagnosed with breast cancer (CDC, 2015a).

Congress passed the Breast and Cervical Cancer Prevention and Treatment Act in 2000 to provide states the option to offer Medicaid coverage for breast cancer treatment for women who were diagnosed when receiving services through from the NBCCEDP (CDC, 2015a). To date, all 50 states and the District of Columbia have approved provision of Medicaid coverage for cancer treatment; therefore, providing low-income, uninsured and underinsured women coverage from screening through completion of treatment (CDC, 2015a). Congress expanded this option 2001, with the passage of the Native American Breast and Cervical Cancer Treatment Technical Amendment Act, to include eligible American Indians and Alaska Natives that receive services by the Indian Health Service or by a tribal organization (CDC, 2015a).

In the State of New Mexico, the NBCCEDP is known as New Mexico’s Breast and Cervical Cancer Early Detection Program and is administered by the New Mexico Department of Health. From July 2009 to June 2014, New Mexico’s Breast and Cervical Cancer Early Detection Program provided 39,820 breast cancer and cervical cancer screening and diagnostic services to women. The program provided 21,520 mammograms that resulted in 4,718 women receiving an abnormal result and 277 women being diagnosed with breast cancer (NBCCEDP Minimum Data Elements, 2015). To find out more information about getting screened and eligibility, contact the Breast and Cervical Cancer Early Detection Program (1-877-852-2585).
State Comprehensive Cancer Control Plan

Comprehensive cancer control is a process through which communities and partner organizations pool resources to reduce cancer risk, find cancers earlier, improve treatments, increase the number of people who survive cancer and improve quality of life for cancer survivors to ultimately reduce the burden of cancer in the state (CDC, 2015d).

The National Comprehensive Cancer Control Program (NCCCP) (http://www.cdc.gov/cancer/ncccp/) is an initiative by the CDC to help states, tribes, US affiliated Pacific Islands, and territories form or support existing coalitions to fight cancer by using local data to determine the greatest cancer-related needs in their area (2015d). Once areas have been identified, the state coalition works collaborative to develop and implement a State Comprehensive Cancer Control Plan to meet the identified needs (CDC, 2015d). These plans include initiatives involving healthy lifestyles, promotion of cancer screening tests, access to good cancer care, and improvement in the quality of life for people who survive cancer (CDC, 2015d). State Comprehensive Cancer Control Plans (2015c) can be located at the following link: http://www.cdc.gov/cancer/ncccp/ccc_plans.htm.

New Mexico’s comprehensive cancer control plan for 2012-2017 (ftp://ftp.cdc.gov/pub/Publications/Cancer/ccc/new_mexico_ccc_plan_2012_2017.pdf) includes the following goals and objectives:

**Goal 1.1:** Improve individual lifestyle behavioral outcomes (increased physical activity, improved dietary intake, tobacco prevention and cessation, decreased alcohol consumption, healthy sexual behavior, and psychological well-being) through culturally and linguistically competent programs and interventions.

**Objectives: 1.1:**
- Realize a 2017 adult obesity prevalence of 27.4 percent or lower (i.e., statistically unchanged from 2007-2010 rates), as evidenced by the BRFSS.
- By 2017, increase by 10 percent the proportion of NM adults who meet recommendations or moderate or vigorous physical activity, from a 2009 baseline of 53.3 percent to 58.6 percent.
- By 2017, increase by 10 percent the proportion of NM high school youth who meet daily recommendations for physical activity, from a 2009 baseline of 23.4 percent to 25.7 percent.
- By 2017, increase by 10 percent the proportion of NM middle school youth who meet daily recommendations for physical activity, from a 2009 baseline of 30.2 percent to 33.2 percent.
- By 2017, decrease by 10 percent the proportion of NM adults who report engaging in no leisure time physical activity, from a 2010 baseline of 21.6 percent to 19.4 percent.
- By 2017, increase by 10 percent the proportion of adult smokers who saw a health care provider in the past year who were advised to quit smoking, from a 2009 baseline of 79 percent to 87 percent.
By 2017, decrease by 25 percent the proportion of NM middle school youth who have smoked cigarettes in the past 30 days, from a 2009 baseline of 6.8 percent to 5.1 percent.

By 2017, decrease by 25 percent the proportion of NM high school youth who have smoked cigarettes in the past 30 days, from a 2009 baseline of 24 percent to 18 percent.

By 2017, decrease by 14 percent the proportion of NM adults who currently smoke cigarettes, from a 2010 baseline of 18.5 percent to 16 percent.

By 2017, increase by seven percent the proportion of NM adult smokers who have tried quitting in the past year, from a 2010 baseline of 60.7 percent to 65 percent.

By 2017, decrease by 25 percent the proportion of NM adults who use spit, chew or snuff tobacco, from a 2010 baseline of 4.1 percent to 3.1 percent.

By 2017, decrease by 25 percent the proportion of NM high school youth who use spit, chew or snuff tobacco, from a 2009 baseline of 11.8 percent to 8.9 percent.

By 2017, increase by 10 percent the proportion of NM adults who consume at least 5 servings of fruits and vegetables per day, from a 2009 baseline of 23.2 percent to 25.5 percent.

By 2017, increase by 10 percent the proportion of NM high school youth who consume at least 5 servings of fruits and vegetables per day, from a 2009 baseline of 20.9 percent to 23 percent.

Increase the proportion of New Mexicans who regularly practice sun safety behaviors, by 2017.

Reduce by five percent, from 31.7 percent (2006 BRFSS) to 30 percent, the proportion of New Mexican adults who report one or more sunburns in the past year, by 2017.

Increase the number of schools that receive technical assistance to implement comprehensive sun-safe policies, from 32 to 40, by 2017.

**Goal 2.1:** Improve access to culturally and linguistically competent, appropriate and effective cancer prevention, education, screening, diagnosis, treatment care and survivor services

**Objectives 2.1:**

- Increase cultural competency among healthcare providers, by 2017 by collaborating with Schools of Nursing and Medicine to ensure training in cultural competency in graduation requirements.

- Provide 16 trainings on cancer to promotoras/healthcare workers to improve healthcare delivery in NM, by 2017.

- Provide 20 trainings to civic organizations, businesses, churches, etc. on cancer prevention, education, screening, diagnosis, treatment and survivor services by 2017.

- Develop a Colorectal Cancer public awareness and education media campaign for New Mexico and promote it annually in March to highlight Colorectal Cancer Awareness month.
**Goal 3.1:** Improve the quality of life for New Mexicans living with cancer throughout the cancer journey.

*Objectives 3.1:*

- Develop (or promote existing) talking points to help people with cancer address quality of life issues with their providers by 2017.
- Distribute materials that describe the talking points to survivorship organizations for dissemination to cancer survivors and their families, by 2017.
- Maintain the number of Cancer Council organizations that promote the Albuquerque Cancer Coalition resource directory at 40.
- Collaborate with other organizations to support policy changes to provide cancer survivors with access to their individual comprehensive cancer care summaries and follow-up plans.
- Increase access to practical and emotional support services for New Mexicans coping with cancer, by implementing programs that address gaps in these areas by 2017.

**Goal 4.1:** Ensure equal access to pain management, palliative care, complementary and alternative services with proven evidence based efficacy, and end of life services.

*Objectives 4.1:*

- Increase awareness among policymakers and mass media professionals about barriers to accessing cancer pain management, palliative care, complementary and alternative services with proven evidence based efficacy, and end of life services, by developing and promoting (or promoting an existing) document highlighting the issues and presenting to lawmakers prior to legislative session (60-day sessions) by 2017.
- Ensure access to palliative care for all cancer patients by making palliation an option for all cancer patients at time of diagnosis.
- Improve access to complementary and alternative medical (CAM) services by developing a list of evidence-based CAM and posting it on NMCC website.

**Goal 5.1:** Increase culturally and linguistically competent and effective education about appropriate screening services for the early detection and/or prevention of cancer among New Mexicans.

*Objectives 5.1:*

- Increase awareness about accessing cancer detection and treatment programs among the general public in New Mexico, by 2017.
- By 2017, increase – through education and awareness efforts – by six percent the proportion of NM women ages 21 through 65 (who report not having had a hysterectomy) who have had a Pap test in the past three years, from a 2010 baseline of 85.8 percent to 91 percent.
- By 2017, increase – through education and awareness efforts – by 15 percent the proportion of NM men and women ages 50 through 75 who are up-to-date with colorectal cancer screening, from a 2010 baseline of 59.8 percent to 68.8 percent.
By 2017, increase – through education and awareness efforts – by 15 percent the proportion of NM women ages 40 and older who have had a mammogram in the past two years, from a 2010 baseline of 71 percent to 81.7 percent.

Increase the number of men, especially those at high risk, who receive state-of-the-art, culturally and linguistically appropriate information about prostate cancer and screening, by 2017.

Improve healthcare providers’ ability to educate patients about hereditary cancer risk assessment including genetic testing and counseling, by 2017.

Raise awareness about family medical history, hereditary risk assessment, genetic testing, and genetic counseling among New Mexicans at higher-than-average risk for hereditary forms of cancer, by 2017.

Assure that New Mexicans recruited into cancer clinical trials are receiving culturally and linguistically appropriate informed-consent materials, by 2017.

**Goal 6.1:** Reduce the rates of cancers caused by social, economic, and physical environment factors.

**Objectives 6.1:**
- Collaborate with other organizations to create and support policies that would improve access to healthy food choices and promote higher levels of food security for all New Mexico populations.
- Raise awareness of the need to reduce exposure to physical environmental factors known to cause cancer.
- Raise awareness of the social determinants of health related cancer disparities.

**Goal 7.1:** Reduce disparities and inequities in cancer incidence, morbidity, and death in New Mexico

**Objective 7.1:**
- Increase awareness about cancer health disparities by distributing cancer stats comparing different racial groups to legislators prior to the start of the legislative session (60-day sessions) by 2017.

**Goal 8.1:**
- Reduce disparities and inequities in access to appropriate and effective cancer prevention, screening, diagnosis, treatment, care and survivor services.

**Objectives 8.1:**
- Support efforts to analyze data on cancer disparities in New Mexico in order to identify strategies to reduce inequalities in cancer control and prevention. Promote data reports to Council members through listserv and to legislators, the Governor’s Office and the press prior to the start of the legislative session (60-day sessions) by 2017.
- Improve access to cancer prevention, screening, diagnosis, treatment, care and survivor services Complementary and Alternative (CAM) services and clinical trials, especially
among minority and rural populations, and among low income, underinsured, and uninsured populations, by 2017, through expanding patient navigation services.

- Increase use of age specific cancer screening using U.S.P.S.T.F. or other nationally recognized evidence-based recommendations for all NM populations.
- Promote/encourage culturally and linguistically competent providers and approaches when addressing issues of access, especially among minority and rural populations, and among low-income, underinsured, and uninsured populations, by 2017.
- Assess the need for/feasibility of a financial assistance fund for individuals diagnosed with Colorectal Cancer by June 2014.

**Goal 9.1:** Improve cooperation, coordination, and collaboration among organizations and federal, state, tribal, county and local governments engaged in community-oriented cancer control.

**Objectives 9.1:**

- Assess the supply and distribution of the cancer care provider workforce in New Mexico and provide results to all levels of government and to health organizations, by 2017.
- Develop a comprehensive and current resource list of cancer control and prevention providers and organizations in New Mexico for posting on the New Mexico Cancer Council Web site, by 2017.
- Inform medical providers, public health practitioners, planners, advocates, educators, and others involved in all areas of cancer control in New Mexico about the resource list on the New Mexico Cancer Council Web site.
- Assess the state’s capacity for providing appropriate and adequate cancer care services to New Mexico’s tribal communities, by 2017.
- Assess the state’s capacity for providing appropriate and adequate cancer care services to New Mexico’s growing and aging population, by 2017.
- Work with advocacy and other organizations to promote policy change promoting informed patient consent and consumer protection, and restricting unfair coding practices that allow the reclassification of screening colonoscopies to diagnostic colonoscopies when polyps are found, resulting in additional cost to the patient.
- Develop and deliver a plan for improving provider education around colorectal cancer screening using FIT/FOBT as a primary screening modality by July 2014.
- Collaborate with the County/Community/Tribal Health Councils to promote screening awareness and utilization at the population level.

For more information regarding New Mexico’s comprehensive cancer plan please visit: [http://nj.gov/health/ccp/ccc_plan/index.shtml](http://nj.gov/health/ccp/ccc_plan/index.shtml).
Affordable Care Act

In 2010, Congress passed the Patient Protection and Affordable Care Act (commonly known as Affordable Care Act or ACA) to expand access to care through insurance coverage, enhance the quality of health care, improve health care coverage for those with health insurance and to make health care more affordable (US Department of Health and Human Services, 2015a). The ACA includes the following mandates to improve health insurance coverage and enhance health care quality (US Department of Health and Human Services, 2015a):

- Prohibit insurers from denying coverage based on pre-existing conditions
- Prohibit insurers from rescinding coverage
- Prohibit annual and lifetime caps on coverage
- Provide coverage of preventive services with no cost-sharing (including screening mammography, well women visits)
- Establish minimum benefits standards, known as the Essential Health Benefits (EHB)

The ACA provides tax subsidies for middle-income individuals to purchase insurance through the health insurance exchanges (commonly called the Marketplace). To be eligible to receive health coverage through the Marketplace, an individual must live in the United States, be a US citizen or national (or lawfully present), cannot be incarcerated, fall into certain income guidelines and cannot be eligible for other insurance coverage (i.e., Medicaid, Medicare and employer sponsored health care coverage) (US Centers for Medicare and Medicaid Services, n.d.).

Based on 2015 data, of the estimated 233,000 total number of uninsured in New Mexico, 47.0 percent are Medicaid eligible, 13.0 percent are eligible for tax subsidies and 40.0 percent are ineligible for financial assistance due to income, employer sponsored insurance offer or citizenship status (Garfield et al., 2015).

Some of the ways that the ACA has affected New Mexico over the past five years include (US Department of Health and Human Service, 2015b):

- Making health care more affordable and accessible through Health Insurance Marketplaces.
  - In New Mexico, 52,358 consumers selected or were automatically re-enrolled in health insurance coverage.
- Reducing the number of uninsured.
  - The number of uninsured in New Mexico decreased to 15.3 percent (2014) from 20.2 percent (2013).
- Removing lifetime limits on health benefits and discrimination for pre-existing conditions resulting in cancer patients not having to worry about going without treatment.
  - In New Mexico, over 213,000 women no longer have to worry about lifetime limits on coverage.
- Making prescription drug coverage more affordable for those on Medicare.
  - In New Mexico, Medicare covered individuals have saved nearly $70,757,988 on prescription drugs.
• Covering preventive services, such as screening mammograms, with no deductible or co-pay.
  o In New Mexico, over 160,000 women received preventive services without cost-sharing.
• Providing increased funding to support health care delivery improvement projects that offer a broader array of primary care services, extend hours of operations, employ more providers and improve health care facilities.
  o New Mexico received $144,594,719 under the health care law.

For more information about the Affordable Care Act or to obtain coverage, please visit the following websites:
• US Department of Health and Human Services: http://www.hhs.gov/healthcare
• Information about health insurance coverage: 1-800-318-2596 or www.healthcare.gov
• ACA assistance in the local community: https://localhelp.healthcare.gov/#intro

**Medicaid Expansion**

Traditional Medicaid had gaps in coverage for adults because eligibility was restricted to specific categories of low-income individuals (i.e., children, their parents, pregnant women, the elderly, or individuals with disabilities) (Figure 4.1) (The Henry J. Kaiser Family Foundation, 2014). In most states, non-elderly adults without dependent children were ineligible for Medicaid, regardless of their income.

Under the ACA, states were provided the option to expand Medicaid coverage to a greater number of non-elderly adults with incomes at or below 138 percent of poverty (about $16,242 per year for an individual in 2015); thus reducing the number of uninsured, low-income adults (The Henry J. Kaiser Family Foundation, n.d.). As of January 2016, 32 states including the District of Columbia have adopted and implemented Medicaid Expansion, three states are still considering adopting Medicaid Expansion and 16 are not adopting Medicaid Expansion at this time (The Henry J. Kaiser Family Foundation, n.d.).
Figure 4.1. The ACA Medicaid Expansion fills current gaps in coverage

Additional information regarding Medicaid Expansion can be found at the following websites:
- The Henry J. Kaiser Family Foundation State Health Facts: http://kff.org/

New Mexico adopted Medicaid expansion, effective January 1, 2014. There are currently 233,000 total individuals who are uninsured and 109,000 are Medicaid eligible (The Henry J. Kaiser Family Foundation, 2016). New Mexico’s Medicaid plan, referred to as Centennial Care, is administered by the New Mexico Department of Human Services. Through Centennial Care low-income (133 percent federal poverty level and below) New Mexico residents may be eligible for receive health care coverage. More information about New Mexico’s Centennial Care program can be found at the following website: http://www.hsd.state.nm.us/Centennial_Care.aspx.

Affordable Care Act, Medicaid Expansion and Uninsured Women

Even after implementation of the ACA and Medicaid Expansion (in some states), there are approximately 12.8 million women (ages 19 to 64) in the US that remain uninsured (The Henry J. Kaiser Family Foundation, 2016). Uninsured women have been found to have inadequate access to care and receive a lower standard of care within health systems that lead to poorer health outcomes (Kaiser Commission on Medicaid and the Uninsured, 2013). Women that are single parents, have incomes below 100 percent federal poverty level, have less than a high
school education, are women of color or immigrants are at greatest risk of being uninsured (Figure 4.2) (The Henry J. Kaiser Family Foundation, 2016).

A 2014 survey by The Henry J. Kaiser Family Foundation (2016) found that 47.0 percent of uninsured women indicated that insurance was too expensive, 13.0 percent were unemployed/work does not offer/not eligible through work, 8.0 percent tried to obtain coverage but were told they were ineligible, 7.0 percent were not eligible due to immigration status and 4.0 percent indicated that they did not need coverage. Of the 587,000 women in New Mexico, 82,180 (14.0 percent) were without health insurance coverage in 2014 (The Henry J. Kaiser Family Foundation, 2016).
Introduction to the Community Profile Report

Susan G. Komen is the world’s largest breast cancer organization, funding more breast cancer research than any other nonprofit while providing real-time help to those facing the disease. Since its founding in 1982, Komen has funded more than $889 million in research and provided $1.95 billion in funding to screening, education, treatment and psychosocial support programs serving millions of people in more than 30 countries worldwide. Komen was founded by Nancy G. Brinker, who promised her sister, Susan G. Komen, that she would end the disease that claimed Suzy’s life.

The purpose of the New Mexico Community Profile is to assess breast cancer burden within the state by identifying areas at highest risk of negative breast cancer outcomes. Through the Community Profile, populations most at-risk of dying from breast cancer and their demographic and socioeconomic characteristics can be identified; as well as, the needs and disparities that exist in availability, access and utilization of quality care.

Quantitative Data: Measuring Breast Cancer Impact in Local Communities

After review of breast cancer late-stage diagnosis and death rates and trends for each county in the state, areas of greatest need were identified based on if the county would meet Healthy People 2020 late-stage diagnosis rate (41.0 per 100,000 women) and death rate (20.6 per 100,000 women) targets.

Breast Cancer Death Rates
The State of New Mexico as a whole is likely to achieve the HP2020 death rate target. The state had a base rate of 20.9 breast cancer deaths per 100,000 females per year from 2006 to 2010 (age-adjusted). This rate coupled with a desirable direction (decrease) in the recent death rate trend, indicates that the State of New Mexico will likely achieve the HP2020 target of 20.6 female breast cancer deaths per 100,000.

The following counties currently meet the HP2020 breast cancer death rate target of 20.6:
- Grant County
- Lea County
- McKinley County
- Rio Arriba County
- San Juan County
- Santa Fe County

The following counties are likely to miss the HP2020 breast cancer death rate target unless the death rate falls at a faster rate than currently estimated:
- Eddy County
- Otero County
- Taos County
- Valencia County
Because data for small numbers of people are not reliable, it can’t be predicted whether Catron County, Cibola County, Colfax County, De Baca County, Guadalupe County, Harding County, Hidalgo County, Lincoln County, Los Alamos County, Luna County, Mora County, Quay County, Roosevelt County, San Miguel County, Sierra County, Socorro County, Torrance County and Union County will reach the death rate target. The remaining counties are likely to achieve the target by 2020 or earlier.

**Breast Cancer Late-Stage Incidence Rates**
The State of New Mexico as a whole is likely to miss the HP2020 late-stage incidence rate target. The state had a base rate of 37.4 new late-stage cases per 100,000 females per year from 2006 to 2010 (age-adjusted). This rate coupled with the recent late-stage incidence rate trend, indicates that the State of New Mexico is likely to miss the HP2020 target of 41.0 new late-stage cases per 100,000.

The following counties currently meet the HP2020 late-stage incidence rate target of 41.0:
- Chaves County
- Curry County
- Grant County
- Lea County
- McKinley County
- Rio Arriba County
- San Miguel County
- Taos County
- Valencia County

The following counties are likely to miss the HP2020 late-stage incidence rate target unless the late-stage incidence rate falls at a faster rate than currently estimated:
- Bernalillo County
- Doña Ana County
- Eddy County
- Lincoln County
- Luna County
- Otero County
- Sandoval County
- San Juan County
- Santa Fe County
- Sierra County
- Socorro County

Because data for small numbers of people are not reliable, it can’t be predicted whether Catron County, Colfax County, De Baca County, Guadalupe County, Harding County, Hidalgo County, Mora County, Quay County, Roosevelt County and Union County will reach the late-stage incidence rate target. The remaining counties are likely to achieve the target by 2020 or earlier.
**HP2020 Conclusions**

*Highest at risk areas*
Six counties in the State of New Mexico are in the highest at risk category. Two of the six, Eddy County and Otero County, are not likely to meet either the death rate or late-stage incidence rate HP2020 targets. Four of the six, Lincoln County, Luna County, Sierra County and Socorro County, are not likely to meet the late-stage incidence rate HP2020 target.

Death trends in Eddy County (2.3 percent per year) are significantly less favorable than the state as a whole (-1.7 percent per year).

Lincoln County has an older population. Luna County has a relatively large Hispanic/Latina population, low education levels, high poverty levels, high unemployment, a relatively large foreign-born population and a relatively large number of households with little English. Sierra County has an older population. Socorro County has low education levels, high poverty levels and a relatively large number of households with little English.

*Medium high at risk areas*
Three counties in the State of New Mexico are in the medium high at risk category. All of the three, Bernalillo County, Doña Ana County and Sandoval County, are not likely to meet the late-stage incidence rate HP2020 target.

The age-adjusted incidence rates in Bernalillo County (117.9 per 100,000) are significantly higher than the state as a whole (108.8 per 100,000). The age-adjusted late-stage incidence rates in Bernalillo County (42.4 per 100,000) are significantly higher than the state as a whole (37.4 per 100,000).

Doña Ana County has a relatively large Hispanic/Latina population, low education levels, high poverty levels, a relatively large foreign-born population and a relatively large number of households with little English. Sandoval County has a relatively large AIAN population.

**Health Systems Analysis**

The Breast Cancer Continuum of Care (CoC), shown in Figure 5.1, is a model that shows how a woman typically moves through the health care system for breast care. A woman would ideally move through the CoC quickly and seamlessly, receiving timely, quality care in order to have the best outcomes. Education can play an important role throughout the entire CoC.

There are often delays in moving from one point of the continuum to another – at the point of follow-up of abnormal screening exam results, starting treatment, and completing treatment – that can all contribute to
poorer outcomes. There are also many reasons why a woman does not enter or continue in the breast cancer CoC. These barriers can include things such as lack of access to services, lack of transportation, system issues including long waits for appointments and inconvenient clinic hours, language barriers, fear, and lack of information or the wrong information (myths and misconceptions).

In the State of New Mexico there were 210 locations found to provide breast cancer services varying between screening, diagnostic, treatment, and survivorship (Figure 5.2). Most locations only provided screening services, a total of 210. There were 36 locations in the state that provide diagnostic services and 21 locations providing treatment services. In the state there were 14 locations that provided survivorship services or care. Identified facilities that provide mammography services were all accredited by the Federal Drug Administration. There were four locations that were accredited by the American College of Surgeons Commission on Cancer, six locations accredited by the American College of Radiology as a Breast Imaging Center of Excellence and two locations accredited as an American College of Surgeons NAPBC program. There was one location designated as a NCI Cancer Center.

The following counties are designated as a Medically Underserved Area/Population and/or a Health Professional Shortage Area for primary care: Bernalillo, Catron, Chaves, Cibola, Colfax, Curry, De Baca, Dona Ana, Eddy, Grant, Guadalupe, Harding, Hidalgo, Lea, Lincoln, Luna, McKinley, Mora, Otero, Quay, Rio Arriba, Roosevelt, San Juan, San Miguel, Sandoval, Santa Fe, Sierra, Socorro, Taos, Torrance, Union and Valencia.
Statistics

Total Locations in Region: 210

**Figure 5.2.** Breast cancer services available in New Mexico
Public Policy Overview

In recent years, public policies pertaining to breast cancer have undergone substantial changes that will affect at-risk women across the United States. States have responded differently to the public policy developments concerning access to services within the breast cancer continuum of care (screening, diagnostic, treatment and survivorship care); therefore, women are dependent on their state’s agenda and action on health care reform.

National Breast and Cervical Cancer Early Detection Program (NBCCEDP)
The NBCCEDP is a nationwide program that provides low-income women with breast and cervical cancer screening, follow-up and support services (i.e., case management and referrals for medical treatment), developing and disseminating public information and education programs and improving the education, training and skills of health professionals.

In the State of New Mexico, the NBCCEDP is known as New Mexico’s Breast and Cervical Cancer Early Detection Program and is administered by the New Mexico Department of Health. From July 2009 to June 2014, New Mexico’s Breast and Cervical Cancer Early Detection Program provided 39,820 breast cancer and cervical cancer screening and diagnostic services to women. The program provided 21,520 mammograms that resulted in 4,718 women receiving an abnormal result and 277 women being diagnosed with breast cancer (NBCCEDP Minimum Data Elements, 2015). To find out more information about getting screened and eligibility, contact the Breast and Cervical Cancer Early Detection Program (1-877-852-2585).

State Comprehensive Cancer Control Plan
Comprehensive cancer control is a process through which communities and partner organizations pool resources to reduce cancer risk, find cancers earlier, improve treatments, increase the number of people who survive cancer and improve quality of life for cancer survivors to ultimately reduce the burden of cancer in the state. Under the National Comprehensive Cancer Control Program (NCCCP), state cancer coalitions develop and implement a State Comprehensive Cancer Control Plan to meet identified cancer needs.

New Mexico’s comprehensive cancer control plan for 2012-2017 (ftp://ftp.cdc.gov/pub/Publications/Cancer/ccc/new_mexico_ccc_plan_2012_2017.pdf) includes the following goals and objectives:

**Goal 1.1:** Improve individual lifestyle behavioral outcomes (increased physical activity, improved dietary intake, tobacco prevention and cessation, decreased alcohol consumption, healthy sexual behavior, and psychological well-being) through culturally and linguistically competent programs and interventions.

**Objectives:** 1.1:
- Realize a 2017 adult obesity prevalence of 27.4 percent or lower (i.e., statistically unchanged from 2007-2010 rates), as evidenced by the BRFSS.
• By 2017, increase by 10 percent the proportion of NM adults who meet recommendations or moderate or vigorous physical activity, from a 2009 baseline of 53.3 percent to 58.6 percent.
• By 2017, increase by 10 percent the proportion of NM high school youth who meet daily recommendations for physical activity, from a 2009 baseline of 23.4 percent to 25.7 percent.
• By 2017, increase by 10 percent the proportion of NM middle school youth who meet daily recommendations for physical activity, from a 2009 baseline of 30.2 percent to 33.2 percent.
• By 2017, decrease by 10 percent the proportion of NM adults who report engaging in no leisure time physical activity, from a 2010 baseline of 21.6 percent to 19.4 percent.
• By 2017, increase by 10 percent the proportion of adult smokers who saw a health care provider in the past year who were advised to quit smoking, from a 2009 baseline of 79 percent to 87 percent.
• By 2017, decrease by 25 percent the proportion of NM middle school youth who have smoked cigarettes in the past 30 days, from a 2009 baseline of 6.8 percent to 5.1 percent.
• By 2017, decrease by 25 percent the proportion of NM high school youth who have smoked cigarettes in the past 30 days, from a 2009 baseline of 24 percent to 18 percent.
• By 2017, decrease by 14 percent the proportion of NM adults who currently smoke cigarettes, from a 2010 baseline of 18.5 percent to 16 percent.
• By 2017, increase by seven percent the proportion of NM adult smokers who have tried quitting in the past year, from a 2010 baseline of 60.7 percent to 65 percent.
• By 2017, decrease by 25 percent the proportion of NM adults who use spit, chew or snuff tobacco, from a 2010 baseline of 4.1 percent to 3.1 percent.
• By 2017, decrease by 25 percent the proportion of NM high school youth who use spit, chew or snuff tobacco, from a 2009 baseline of 11.8 percent to 8.9 percent.
• By 2017, increase by 10 percent the proportion of NM adults who consume at least 5 servings of fruits and vegetables per day, from a 2009 baseline of 23.2 percent to 25.5 percent.
• By 2017, increase by 10 percent the proportion of NM high school youth who consume at least 5 servings of fruits and vegetables per day, from a 2009 baseline of 20.9 percent to 23 percent.
• Increase the proportion of New Mexicans who regularly practice sun safety behaviors, by 2017.
• Reduce by five percent, from 31.7 percent (2006 BRFSS) to 30 percent, the proportion of New Mexican adults who report one or more sunburns in the past year, by 2017.
• Increase the number of schools that receive technical assistance to implement comprehensive sun-safe policies, from 32 to 40, by 2017.
**Goal 2.1:** Improve access to culturally and linguistically competent, appropriate and effective cancer prevention, education, screening, diagnosis, treatment care and survivor services

**Objectives 2.1:**
- Increase cultural competency among healthcare providers, by 2017 by collaborating with Schools of Nursing and Medicine to ensure training in cultural competency in graduation requirements.
- Provide 16 trainings on cancer to promotoras/healthcare workers to improve healthcare delivery in NM, by 2017.
- Provide 20 trainings to civic organizations, businesses, churches, etc. on cancer prevention, education, screening, diagnosis, treatment and survivor services by 2017.
- Develop a Colorectal Cancer public awareness and education media campaign for New Mexico and promote it annually in March to highlight Colorectal Cancer Awareness month.

**Goal 3.1:** Improve the quality of life for New Mexicans living with cancer throughout the cancer journey.

**Objectives 3.1:**
- Develop (or promote existing) talking points to help people with cancer address quality of life issues with their providers by 2017.
- Distribute materials that describe the talking points to survivorship organizations for dissemination to cancer survivors and their families, by 2017.
- Maintain the number of Cancer Council organizations that promote the Albuquerque Cancer Coalition resource directory at 40.
- Collaborate with other organizations to support policy changes to provide cancer survivors with access to their individual comprehensive cancer care summaries and follow-up plans.
- Increase access to practical and emotional support services for New Mexicans coping with cancer, by implementing programs that address gaps in these areas by 2017.

**Goal 4.1:** Ensure equal access to pain management, palliative care, complementary and alternative services with proven evidence based efficacy, and end of life services.

**Objectives 4.1:**
- Increase awareness among policymakers and mass media professionals about barriers to accessing cancer pain management, palliative care, complementary and alternative services with proven evidence based efficacy, and end of life services, by developing and promoting (or promoting an existing) document highlighting the issues and presenting to lawmakers prior to legislative session (60-day sessions) by 2017.
- Ensure access to palliative care for all cancer patients by making palliation an option for all cancer patients at time of diagnosis.
- Improve access to complementary and alternative medical (CAM) services by developing a list of evidence-based CAM and posting it on NMCC website.
**Goal 5.1:** Increase culturally and linguistically competent and effective education about appropriate screening services for the early detection and/or prevention of cancer among New Mexicans.

*Objectives 5.1:*
- Increase awareness about accessing cancer detection and treatment programs among the general public in New Mexico, by 2017.
- By 2017, increase – through education and awareness efforts – by six percent the proportion of NM women ages 21 through 65 (who report not having had a hysterectomy) who have had a Pap test in the past three years, from a 2010 baseline of 85.8 percent to 91 percent.
- By 2017, increase – through education and awareness efforts – by 15 percent the proportion of NM men and women ages 50 through 75 who are up-to-date with colorectal cancer screening, from a 2010 baseline of 59.8 percent to 68.8 percent.
- By 2017, increase – through education and awareness efforts – by 15 percent the proportion of NM women ages 40 and older who have had a mammogram in the past two years, from a 2010 baseline of 71 percent to 81.7 percent.
- Increase the number of men, especially those at high risk, who receive state-of-the-art, culturally and linguistically appropriate information about prostate cancer and screening, by 2017.
- Improve healthcare providers’ ability to educate patients about hereditary cancer risk assessment including genetic testing and counseling, by 2017.
- Raise awareness about family medical history, hereditary risk assessment, genetic testing, and genetic counseling among New Mexicans at higher-than-average risk for hereditary forms of cancer, by 2017.
- Assure that New Mexicans recruited into cancer clinical trials are receiving culturally and linguistically appropriate informed-consent materials, by 2017.

**Goal 6.1:** Reduce the rates of cancers caused by social, economic, and physical environment factors.

*Objectives 6.1:*
- Collaborate with other organizations to create and support policies that would improve access to healthy food choices and promote higher levels of food security for all New Mexico populations.
- Raise awareness of the need to reduce exposure to physical environmental factors known to cause cancer.
- Raise awareness of the social determinants of health related cancer disparities.
**Goal 7.1:** Reduce disparities and inequities in cancer incidence, morbidity, and death in New Mexico

*Objective 7.1:*
- Increase awareness about cancer health disparities by distributing cancer stats comparing different racial groups to legislators prior to the start of the legislative session (60-day sessions) by 2017.

**Goal 8.1:**
- Reduce disparities and inequities in access to appropriate and effective cancer prevention, screening, diagnosis, treatment, care and survivor services.

*Objectives 8.1:*
- Support efforts to analyze data on cancer disparities in New Mexico in order to identify strategies to reduce inequalities in cancer control and prevention. Promote data reports to Council members through listserv and to legislators, the Governor’s Office and the press prior to the start of the legislative session (60-day sessions) by 2017.
- Improve access to cancer prevention, screening, diagnosis, treatment, care and survivor services Complementary and Alternative (CAM) services and clinical trials, especially among minority and rural populations, and among low income, underinsured, and uninsured populations, by 2017, through expanding patient navigation services.
- Increase use of age specific cancer screening using U.S.P.S.T.F. or other nationally recognized evidence-based recommendations for all NM populations.
- Promote/encourage culturally and linguistically competent providers and approaches when addressing issues of access, especially among minority and rural populations, and among low income, underinsured, and uninsured populations, by 2017.
- Assess the need for/feasibility of a financial assistance fund for individuals diagnosed with Colorectal Cancer by June 2014.

**Goal 9.1:** Improve cooperation, coordination, and collaboration among organizations and federal, state, tribal, county and local governments engaged in community-oriented cancer control.

*Objectives 9.1:*
- Assess the supply and distribution of the cancer care provider workforce in New Mexico and provide results to all levels of government and to health organizations, by 2017.
- Develop a comprehensive and current resource list of cancer control and prevention providers and organizations in New Mexico for posting on the New Mexico Cancer Council Web site, by 2017.
- Inform medical providers, public health practitioners, planners, advocates, educators, and others involved in all areas of cancer control in New Mexico about the resource list on the New Mexico Cancer Council Web site.
- Assess the state’s capacity for providing appropriate and adequate cancer care services to New Mexico’s tribal communities, by 2017.
• Assess the state’s capacity for providing appropriate and adequate cancer care services to New Mexico’s growing and aging population, by 2017.
• Work with advocacy and other organizations to promote policy change promoting informed patient consent and consumer protection, and restricting unfair coding practices that allow the reclassification of screening colonoscopies to diagnostic colonoscopies when polyps are found, resulting in additional cost to the patient.
• Develop and deliver a plan for improving provider education around colorectal cancer screening using FIT/FOBT as a primary screening modality by July 2014.
• Collaborate with the County/Community/Tribal Health Councils to promote screening awareness and utilization at the population level.

For more information regarding New Mexico’s comprehensive cancer plan please visit: http://nj.gov/health/ccp/ccc_plan/index.shtml.

Affordable Care Act
In 2010, Congress passed the Patient Protection and Affordable Care Act (commonly known as Affordable Care Act or ACA) to expand access to care through insurance coverage, enhance the quality of health care, improve health care coverage for those with health insurance and to make health care more affordable.

The ACA includes the following mandates to improve health insurance coverage and enhance health care quality (US Department of Health and Human Services, 2015a):
• Prohibit insurers from denying coverage based on pre-existing conditions
• Prohibit insurers from rescinding coverage
• Prohibit annual and lifetime caps on coverage
• Provide coverage of preventive services with no cost-sharing (including screening mammography, well women visits)
• Establish minimum benefits standards, known as the Essential Health Benefits (EHB)

The ACA provides tax subsidies for middle-income individuals to purchase insurance through the health insurance exchanges (commonly called the Marketplace). To be eligible to receive health coverage through the Marketplace, an individuals must live in the United States, be a US citizen or national (or lawfully present), cannot be incarcerated, fall into certain income guidelines and cannot be eligible for other insurance coverage (i.e., Medicaid, Medicare and employer sponsored health care coverage) (US Centers for Medicare and Medicaid Services, n.d.).

Based on 2015 data, of the estimated 233,000 total number of uninsured in New Mexico, 47.0 percent are Medicaid eligible, 13.0 percent are eligible for tax subsidies and 40.0 percent are ineligible for financial assistance due to income, employer sponsored insurance offer or citizenship status (Garfield et al., 2015).
Medicaid Expansion
Traditional Medicaid had gaps in coverage for adults because eligibility was restricted to specific categories of low-income individuals (i.e., children, their parents, pregnant women, the elderly, or individuals with disabilities). In most states, non-elderly adults without dependent children were ineligible for Medicaid, regardless of their income.

Under the ACA, states were provided the option to expand Medicaid coverage to a greater number of non-elderly adults with incomes at or below 138 percent of poverty (about $16,242 per year for an individual in 2015); thus reducing the number of uninsured, low-income adults.

New Mexico adopted Medicaid expansion, effective January 1, 2014. There are currently 233,000 total individuals who are uninsured and 109,000 are Medicaid eligible (The Henry J. Kaiser Family Foundation, 2016). New Mexico’s Medicaid plan, referred to as Centennial Care, is administered by the New Mexico Department of Human Services. Through Centennial Care low-income (133 percent federal poverty level and below) New Mexico residents may be eligible for receive health care coverage. More information about New Mexico’s Centennial Care program can be found at the following website: http://www.hsd.state.nm.us/Centennial_Care.aspx.

Affordable Care Act, Medicaid Expansion and Uninsured Women
Even after implementation of the ACA and Medicaid Expansion (in some states), there are approximately 12.8 million women (ages 19 to 64) in the US that remain uninsured. Of the 587,000 women in New Mexico, 82,180 (14.0 percent) were without health insurance coverage in 2014.

Uninsured women have been found to have inadequate access to care and receive a lower standard of care within health systems that lead to poorer health outcomes. Women that are single parents, have incomes below 100 percent federal poverty level, have less than a high school education, are women of color or immigrants are at greatest risk of being uninsured.

Conclusions
Overall, New Mexico is likely to miss the HP2020 late-stage incidence target and is likely to achieve the HP2020 death rate target. A total of 210 locations were identified as providing at least one type of breast cancer service along the continuum of care. While all of the facilities providing mammography services were accredited by the FDA, only 6.0 percent of the locations have been recognized as receiving additional quality of care accreditations. New Mexico also has many designated areas that are rural and/or medically underserved - where individuals may have inadequate access to health care. Although New Mexico has implemented programs (i.e., NBCCEDP, Medicaid Expansion) to assist low-income and uninsured individuals, there are still far too many individuals that have inadequate access to health care and may be receiving a lower standard of care. Both may contribute to poorer breast cancer outcomes.
The information provided in this report can be used by public health organizations, local service providers and policymakers to identify areas of greatest need and the potential demographic and socioeconomic factors that may be causing suboptimal breast cancer outcomes. Susan G. Komen will continue to utilize evidence-based practices to reduce breast cancer late-stage diagnosis and death rates by empowering others, ensuring quality care for all and energizing science to find the cures.
References


Appendix A.
State Map with County Names

Source: US Census Bureau, 2014