



2016

NEEDS AND ASSETS REPORT

 **FIRST THINGS FIRST**

Graham/Greenlee

Graham/Greenlee Regional Partnership Council

2016

Needs and Assets Report

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Funded by

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February 10, 2017

Message from the Chair:

The past two years have been rewarding for the First Things First Graham/Greenlee Regional Partnership Council, as we delivered on our mission to build better futures for young children and their families. During the past year, we have touched many lives of young children and their families through the implementation of Quality First, Quality First Child Care Scholarships, Parenting Outreach & Awareness and Home Visitation. The council is extremely proud of their successful collaboration efforts helping to improve the early childhood system in the region.

The First Things First Graham/Greenlee Regional Partnership Council will continue to advocate and provide opportunities to improve access and affordability to a quality early learning system, family support services, increased awareness of family services in our region, and dedicated efforts to make sure children start kindergarten healthy and ready to succeed.

The 2016 Graham/Greenlee Regional Needs and Assets Report is the fifth in a series of assessments conducted every two years for the First Things First Graham/Greenlee Regional Partnership Council. The assessment provides a snapshot of the current status of children and families in the region. It is a collection of useful data and community information that will be used to help determine how best to invest resources to improve the lives of young children and families.

Going forward, the First Things First Graham/Greenlee Regional Partnership Council is committed to meeting the needs of young children by providing essential services, advocating for change and helping to build the early childhood system in our region.

Thanks to our dedicated staff, volunteers and community partners, First Things First is making a real difference in the lives of our youngest citizens throughout the state of Arizona.

Sincerely,

Laurie Smith, Chair
Graham/Greenlee Regional Partnership Council

Introductory Summary and Acknowledgments

Ninety percent of a child's brain develops before kindergarten and the quality of a child's early experiences impact whether their brain will develop in positive ways that promote learning. Understanding the critical role the early years play in a child's future success is crucial to our ability to foster each child's optimal development and, in turn, impact all aspects of wellbeing of our communities and our state.

This Needs and Assets Report for the Graham-Greenlee Region helps us in understanding the needs of young children, the resources available to meet those needs and gaps that may exist in those resources. An overview of this information is provided in the Executive Summary and documented in further detail in the full report.

The First Things First Graham-Greenlee Regional Partnership Council recognizes the importance of investing in young children and ensuring that families and caregivers have options when it comes to supporting the healthy development of young children in their care. This report provides information that will aid the Council's funding decisions, as well as our work with community partners on building a comprehensive early childhood system that best meets the needs of young children in our community.

It is our sincere hope that this information will help guide community conversations about how we can best support school readiness for all children in the Graham-Greenlee region. This information may also be useful to stakeholders in our area as they work to enhance the resources available to young children and their families and as they make decisions about how best to support children birth to 5 years old in our area.

Acknowledgments:

We want to thank the Arizona Department of Economic Security and the Arizona Child Care Resource and Referral, the Arizona Department of Health Services, the Arizona Department of Education, the Census Bureau, the Arizona Department of Administration- Employment and Population Statistics, and the Arizona Health Care Cost Containment System for their contributions of data for this report, and their ongoing support and partnership with First Things First on behalf of young children.

To the current and past members of the Graham-Greenlee Regional Partnership Council, your vision, dedication, and passion have been instrumental in improving outcomes for young children and families within the region. Our current efforts will build upon those successes with the ultimate goal of building a comprehensive early childhood system for the betterment of young children within the region and the entire state.

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Executive Summary

Regional Description

The First Things First Graham/Greenlee Region is defined as the combined area of the two counties, not including the lands belonging to the San Carlos Apache Tribe within Graham County.

Data Sources

The data contained in this report come from a variety of sources. Some data were provided to First Things First by state agencies, such as the Arizona Department of Economic Security (DES), the Arizona Department of Education (ADE), and the Arizona Department of Health Services (ADHS). Other data were obtained from publically available sources, including the 2010 U. S. Census, the American Community Survey (ACS), the Arizona Department of Administration (ADOA), and the Arizona Health Care Cost Containment System (AHCCCS). In addition, regional data from the 2012 First Things first Family and Community Survey (FCS) are included.

Population Characteristics

According to the U.S. Census, the Graham/Greenlee Region had a population of 40,877 in 2010, of whom 3,903 (10%) were children under the age of six. Twenty percent of households in the region included a young child. According to the Arizona Department of Administration, the population of young children in Graham County was expected to decrease by 2015, and then begin increasing again into 2020. In Greenlee County, the population of young children was expected to decrease into 2015 and then remain the same into 2020. The overall increase from 2010 to 2020 in the population of children under age 6 in Graham County (4%) is projected to be lower than the state of Arizona's projected increase (12%). In Greenlee County, the population of young children is projected to decrease by 12 percent into 2020.

Living arrangements of children in the Graham/Greenlee Region are similar to those in the state, with the majority of children living in married, two-parent families. In the Graham/Greenlee Region, very few (5%) children aged birth to 5 live with a foreign-born parent. Graham County had an even lower percentage of young children living with a foreign-born parent (3%). In Greenlee County this percentage was higher (11%), although still far below the proportion across the state as a whole (28%). There are slightly more inter-generational households in the region than the state; 17 percent of children 5 and under live in a grandparent's household in the region, compared to 22 percent in Graham County, 19 percent in Greenlee County and 14 percent across the state, but fewer grandparents in the region are the primary caregiver than statewide.

Differences also exist between the region, counties, and the state relating to ethnicity and language. Forty-four percent of young children in the Graham/Greenlee Region are Hispanic or Latino. This is a higher percentage than in Graham County (34%), a lower percentage compared to Greenlee County (55%), but similar to the state of Arizona (45%). A lower proportion of adults (those aged 18 and older) than children identify as Hispanic or Latino across all geographic levels. In the region, 35 percent of adults identify as Hispanic or Latino, which is

more than in Graham County (29%) and the state (25%). In Greenlee County however, the proportion of adults identifying as Hispanic or Latino (44%) exceeds the region, Graham County, and the state. More households in the region (81%) are English speaking only compared to Arizona (73%).

Economic Circumstances

Seventeen percent of the total (all-age) population of the Graham/Greenlee Region lives in poverty, which is lower than in Graham County (22% in poverty) and the state (18%), but slightly higher than in Greenlee County (16%). The percentage of the population aged 0-5 in poverty in the Graham/Greenlee Region (18%) is only slightly higher than the total population in the region in poverty (17%), but lower than the population of children aged 0-5 living in poverty across Graham County (27%) or the state (28%). Again the pattern compared to Greenlee County is different, where a lower proportion of young children live in poverty (16%) compared to the region (18%). In addition to the families whose incomes fall below the federal poverty level, a proportion of households in the region and county are considered low income (i.e., near but not below the federal poverty level [FPL]). Just under half of all families (46%) in the region with children aged four and under live below 185 percent of the FPL (i.e., earned less than \$3,677 a month for a family of four) compared to 54 percent in Graham County, 41 percent in Greenlee County, and 48 percent statewide.

Other indicators related to poverty also vary across the region, counties and state.

Unemployment rates have dropped in both counties and the state since 2010, although the decrease in Greenlee County has been the largest, from a high of 19 percent in 2009 to just seven percent in 2014. The proportion of housing units costing more than 30 percent of the owners' or renters' income also varies greatly, although the region, Graham County, and Greenlee County all have a lower proportion (24%, 26%, and 15% respectively) than the state (36%). In contrast, the foreclosure rate in the region (17 per 10,000 homes) was more than double the rate statewide (7.2 per 10,000).

The percentages of children aged 5 and under receiving Temporary Assistance for Needy Families (TANF) from 2012 to 2014 were low for the region, counties, and the state. Other safety net programs, such as the Supplemental Nutrition Assistance Program (SNAP) and the school-based free or reduced-price lunch program, reached more children. For SNAP, about half of young children in the Graham/Greenlee Region received this benefit in the years 2012 through 2014, similar to Graham County and across the state as a whole. In Greenlee County, use was lower, with roughly a third of young children receiving SNAP between 2012 and 2014. For both TANF and SNAP, the percentage of young children receiving this benefit has decreased between 2012 and 2014. More than half of students in Graham County have been eligible for free or reduced-price lunch since 2012, and the percentage has decreased from 57 percent in 2012 to 53 percent in 2014. In Greenlee County, a lower proportion of students were eligible for this benefit, decreasing slightly from 41 percent in 2012 to 40 percent in 2014. At the same time, the percent across the state has remained at 57 or 58 percent.

Educational Indicators

Completion of higher education is relatively uncommon the region. Adults aged 25 and older in the Graham/Greenlee Region, Graham County, and Greenlee County are less likely to have a bachelor's degree or more (13%, 12% and 11% respectively) than adults across Arizona (27%). Same-age adults in the region and county, however, are slightly more likely to have had some college or professional training than those across the state. High school drop-out rates were similar in Graham County and the state of Arizona but substantially lower in Greenlee County. In addition, four and five year graduation rates in 2013 in Greenlee County (91% for both) were higher than in Graham County and in the state (75% and 79% for both Graham County and Arizona). Graduation rates have decreased between 2011 and 2013 in Graham County and the state, but have increased during the same period in Greenlee County.

Child academic achievement varies by county within the region. Students pass Arizona's Instrument to Measure Standards (AIMS) if they meet or exceed the standard. In Greenlee County, nearly half of students (49%) exceeded the standards, with 81 percent of students passing the Math test and 85 percent passing the Reading test in 2014. Results in Graham County were more similar to those statewide; 70 percent of students passed the Math test and 75 percent passed the Reading test. Across Arizona, 69 percent of third grade students passed the AIMS Math test and 78 percent passed the AIMS reading test. A lower proportion of third graders in both counties scored "falls far below" in math compared to the state (7% in Graham County, 4% in Greenlee County and 10% in Arizona), and this pattern held for reading as well (1% in Graham and Greenlee Counties and 3% in Arizona scored "falls far below").

Early Learning

In 2014, there were 23 licensed child care providers in the Graham/Greenlee Region, licensed to serve 716 children. All of these providers were classified as either family child care providers (n=14) or child care centers (n=9). The cost of care in Graham and Greenlee Counties varies by the type of care and the age of the child receiving care; generally the cost in licensed centers is more expensive than the cost in other types of facilities. Residents of Graham and Greenlee Counties tend to pay lower prices for child care centers but higher prices for approved family homes than residents statewide.

According to data from the American Community Survey, one-third (33%) of children aged 3 and 4 were enrolled in nursery school, preschool, or kindergarten in the Graham/Greenlee Region. Within the region, a much higher proportion (53%) were enrolled in school in Greenlee County. The enrollment rate in the region was similar to that of the state (35%).

In the Graham/Greenlee Region and Graham County, most referrals made to the Arizona Early Intervention Program (AzEIP) in FY 2014 were for children aged 13 to 24 months (n=37 for the region). In the state, most referrals made were for children aged 25 to 35 months. The number of Division of Developmental Disabilities (DDD) service visits for children aged 0-2 decreased from 2013 to 2014 in the region, both counties and the state, with dramatic decreases in the region and Graham County. The number of DDD service visits for older children (ages 3-5)

increased in the region and Graham County, an opposite pattern to Greenlee County and the state.

Child Health

The characteristics of mothers who gave birth in 2013 varied by geographical designation. For example, five percent of women giving birth in the Graham/Greenlee Region had fewer than five prenatal visits, compared to 11 percent in Graham County, four percent in Greenlee County, and five percent across the state overall. The region (and counties individually) are not meeting the Healthy People 2020 objectives related to the proportion of expectant mothers who receive prenatal care in the first trimester; at 23 percent, the region is above the Healthy People 2020 guideline of no more than 22.1 percent lacking first trimester care. A much higher proportion of mothers in the Graham/Greenlee Region (9%), Graham County (8%) and Greenlee County (10%) reported smoking while pregnant than across the state (4%). This places the region far above the Healthy People 2020 target maximum of only 1.4 percent of women who smoke while pregnant.

The Graham/Greenlee Region is, however, meeting objectives of Healthy People 2020 for infant and child health. Healthy People 2020 objectives include that fewer than 7.8 percent of babies are born at low birth weights and fewer than 11.4 percent are born preterm. In the region in 2013, seven percent of babies were low birth weight and 11 percent were premature.

Non-fatal emergency department visits for unintentional injuries for children under age six in Greenlee County and the state have been on the decline between 2012 and 2014, but there were about as many injuries in 2014 as there were in 2012 in Graham County.

A key factor in health care is health insurance, and 10 percent of young children in the region lack health insurance. This is a lower percentage than in either Graham (15%) or Greenlee (21%) County, but the same as the proportion statewide. Compared to young children, members of the total (all ages) population of the region, Graham County, and state were more likely to lack health insurance. In contrast, in Greenlee County, the total population was less likely to be uninsured (14%) compared to young children in the county (21%).

While immunization rates vary by vaccine, over 90 percent of children in child care in the Graham/Greenlee Region had completed each of the three major (DTAP, polio, and MMR) vaccine series. The Healthy People 2020 Target for vaccination coverage for children ages 19-35 months for these vaccines is 90 percent, suggesting the region is meeting this goal.

However, given that state regulations require children enrolled in child care to be up to date on immunizations, it is possible that the rates of immunization for children in child care are higher than immunization rates for children not in child care. If that is the case, the rates for the entire population of children in these areas may be lower than the Healthy People 2020 goal. Notably, Greenlee County only had 89 percent of children in child care who were up to date on the diphtheria, tetanus, and pertussis (DTAP) vaccine, putting it below the Healthy People 2020 target. In the region, children in kindergarten were generally vaccinated at slightly lower rates than children in child care, and the region's rates of vaccine coverage for kindergarteners were also below those at the state level.

Family Support and Literacy

The First Things First Family and Community Survey is a phone-based survey designed to measure many critical areas of parents' knowledge, skills, and behaviors related to their young children. In the Graham/Greenlee Region, 100 people responded to the 2012 First Things First Family and Community Survey. Among other topics, the 2012 survey collected data about parent and caregiver knowledge of children's early development and their involvement in a variety of behaviors known to contribute positively to healthy development. Parents in the Graham/Greenlee Region were somewhat less likely to report reading to their children (48%), telling stories to their children (42%) and drawing with their child (45%) six or seven days a week compared to parents across the state (51%, 51% and 47% respectively). Parents in the Graham/Greenlee Region showed a slightly better understanding that brain development can be impacted prenatally or right from birth than did respondents across the state as a whole.

Communication, Public Information and Awareness

In addition to measuring parent knowledge, skills, and behaviors related to their young children, the 2012 First Things First Family and Community Survey collected data on parents' perceptions regarding resources available to young children and their families across Arizona. Results from the survey demonstrated that residents in the Graham/Greenlee Region had similar levels of satisfaction with available information and resources, and agreement with ease of locating services, compared to the state. While 89 percent of Graham/Greenlee Region respondents indicated some level of satisfaction, only about one-third (35%) indicated they were "very satisfied" with "the community information and resources available to them about their children's development and health." Seventy-nine percent of Graham/Greenlee Region respondents "strongly agreed" or "somewhat agreed" that "it is easy to locate services that I want or need," compared to 74 percent of respondents across the state.

Systems Coordination among Early Childhood Programs and Services

The 2012 First Things First Family and Community Survey collected data on parents' perceptions regarding how well agencies that serve young children and their families coordinate and collaborate. One item from the survey addresses the issue of perceived early childhood system coordination. Respondents in the region were more likely to indicate dissatisfaction (37%) than satisfaction (35%) with how care providers and government agencies work together and communicate. The reverse was true across the state where respondents were more likely to indicate satisfaction (43%) than dissatisfaction (29%) with the level of cooperation and communication among providers and agencies.

The Graham/Greenlee Region

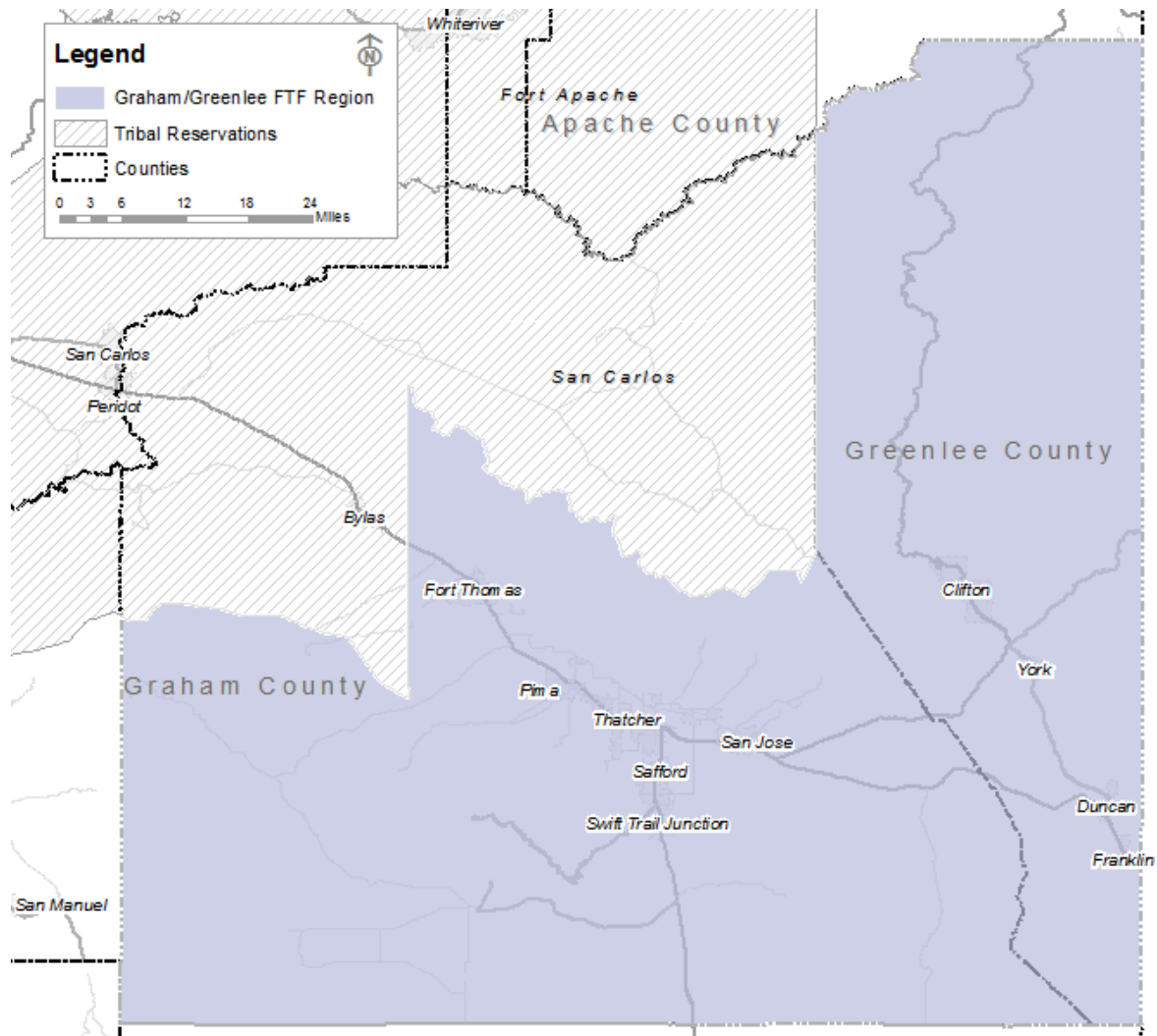
Regional Description

The First Things First regional boundaries were initially established in 2007, creating 31 regions which were designed to (a) reflect the view of families in terms of where they access services, (b) coincide with existing boundaries or service areas of organizations providing early childhood services, (c) maximize the ability to collaborate with service systems and local governments, and facilitate the ability to convene a Regional Partnership Council, and (d) allow for the collection of demographic and indicator data. The regional boundaries are reviewed every two years. In fiscal year 2015, the boundaries were modified using census blocks, creating 28 regions. This report uses the 2015 definition of the regional boundaries.

The First Things First Graham/Greenlee Region is defined as the combined area of the two counties, not including the lands belonging to the San Carlos Apache Tribe within Graham County.

Figure 1 below shows the geographical area covered by the Graham/Greenlee Region. Additional information available at the end of this report includes a map of the region by zip code in Appendix 1, a table listing zip codes for the region in Appendix 2, and a map of school districts in the region in Appendix 3.

Figure 1. The Graham/Greenlee Region



Source: U.S. Census Bureau (2010). TIGER/Line Shapefiles: TabBlocks, Streets, Counties, American Indian/Alaska Native Homelands. Retrieved from <http://www.census.gov/geo/maps-data/data/tiger-line.html>

Data Sources

The data contained in this report come from a variety of sources. Some data were provided to First Things First by state agencies, such as the Arizona Department of Economic Security (DES), the Arizona Department of Education (ADE), and the Arizona Department of Health Services (ADHS). Other data were obtained from publically available sources, including the 2010 U.S. Census, the American Community Survey (ACS), the Arizona Department of Administration (ADOA), and the Arizona Health Care Cost Containment System (AHCCCS). In addition, regional data from the 2012 First Things first Family and Community Survey (FCS) are included.

The U.S. Census¹ is an enumeration of the population of the United States. It is conducted every ten years, and includes information about housing, race, and ethnicity. The 2010 U.S. Census data are available by census block. There are about 115,000 inhabited blocks in Arizona, with an average population of 56 people each. The Census data for the Graham/Greenlee Region presented in this report were calculated by identifying each block in the region, and aggregating the data over all of those blocks. (Note that the Census 2010 data in the current report may vary to a small degree from census data reported in previous Needs & Assets reports. The reason is that in the previous reports, the Census 2010 data were aggregated by zip code; the current report uses aggregation by census blocks.)

The American Community Survey² is a survey conducted by the U.S. Census Bureau each month by mail, telephone, and face-to-face interviews. It covers many different topics, including income, language, education, employment, and housing. The ACS data are available by census tract. Arizona is divided into about 1,500 census tracts, with an average of about 4,200 people in each. The ACS data for the Graham/Greenlee Region were calculated by aggregating over the census tracts which are wholly or partially contained in the region. The data from partial census tracts were apportioned according to the percentage of the 2010 Census population in that tract living inside the Graham/Greenlee Region. The most recent and most reliable ACS data are averaged over the past five years; those are the data included in this report. They are based on surveys conducted from 2009 to 2013. In general, the reliability of ACS estimates is greater for more populated areas. Statewide estimates, for example, are more reliable than county-level estimates.

To protect the confidentiality of program participants, the First Things First Data Dissemination and Suppression Guidelines preclude our reporting social service and early education programming data if the count is less than ten, and preclude our reporting data related to health or developmental delay if the count is less than twenty-five. In addition, some data received from state agencies may be suppressed according to their own guidelines. The Arizona Department of Health Services, for example, does not report counts less than six. Throughout this report, information which is not available because of suppression guidelines will be indicated by entries of “N/A” in the data tables.

¹ U.S. Census Bureau. (May, 2000). *Factfinder for the Nation*. Retrieved from <http://www.census.gov/history/pdf/cff4.pdf>

² U.S. Census Bureau. (April, 2013). *American Community Survey Information Guide*. Retrieved from http://www.census.gov/content/dam/Census/programs-surveys/acs/about/ACS_Information_Guide.pdf

Population Characteristics

Why it Matters

The characteristics of families living within a region can influence the availability of resources and supports for those families.³ Population characteristics and trends in family composition are often considered by policymakers when making decisions about the type and location of services to be provided within a region such as schools, health care facilities and services, and social services and programs. As a result of these decisions, families with young children may have very different experiences within and across regions regarding access to employment, food resources, schools, health care facilities and providers, and social services. It is important, therefore, that decision-makers understand who their constituents are so that they can prioritize policies that address the needs of diverse families with young children. Accurate and up-to-date information about population characteristics such as the number of children and families in a geographic region, their ethnic composition, whether their parents were born abroad, living arrangements and languages spoken can support the development or continuation of resources that are linguistically, culturally, and geographically most appropriate for a given locale.

In addition to being affected by community resources, the likelihood of a child reaching his or her optimal development can also be affected by the supports and resources available within the family.^{4,5} The availability of family resources can be influenced by the characteristics of the family structure, such as who resides in a household and who is responsible for a child's care. Children living with and being cared for by relatives or caregivers other than parents, is increasingly common.⁶ Those providing this type of care, such as friends, aunts, uncles, siblings and grandparents, may be in need of special support. Raising or supporting young children may pose a particular challenge for aging grandparents, as they often lack information on resources,

³ U.S. Department of Health and Human Services, Health Resources and Services Administration, Maternal and Child Health Bureau. (2014). *Child Health USA 2014. Population Characteristics*. Retrieved from: <http://mchb.hrsa.gov/chusa14/population-characteristics.html>

⁴ Center for American Progress. (2015). *Valuing All Our Families. Progressive Policies that Strengthen Family Commitments and Reduce Family Disparities*. Retrieved from: <https://cdn.americanprogress.org/wp-content/uploads/2015/01/FamilyStructure-report.pdf>

⁵ Kidsdata.org. (n.d.). *Summary: Family Structure*. Retrieved from: <http://www.kidsdata.org/topic/8/family-structure/summary>

⁶ U.S. Department of Health and Human Services. (2012). *ASPE Report. Children in Nonparental Care: A Review of the Literature and Analysis of Data Gaps*. Retrieved from <http://aspe.hhs.gov/basic-report/children-nonparental-care-review-literature-and-analysis-data-gaps>

support services, benefits and policies available to aid in their caregiving role.⁷ Often, grandparents take on child rearing responsibilities when parents are unable to provide care because of the parent's death, unemployment or underemployment, physical or mental illness, substance abuse, incarceration, or because of domestic violence or child neglect in the family.⁸ Caring for children who have experienced family trauma can pose an even greater challenge to grandparents, who may be in need of specialized assistance and resources to support their grandchildren.

Understanding language use in the region can also contribute to being better able to serve the needs of families with young children. Language preservation and revitalization have been recognized by the U.S. Department of Health & Human Services as keys to strengthening culture in Native communities and to encouraging communities to move toward social unity and self-sufficiency.⁹ Special consideration should be given to respecting and supporting the numerous Native languages spoken by families, particularly in tribal communities around the state. In addition, assuring that early childhood resources and services are available in Spanish is important in many areas of Arizona, given that five percent of the households in the state are limited English speaking households (that is, a household where none of the members speak English very well). Language barriers for these families can limit their access to health care and social services, and can provide challenges to communication between parents and their child's teachers, which can impact the quality of education children are able to receive.¹⁰

⁷ American Association for Marriage and Family Therapy. (2015). *Grandparents Raising Grandchildren*. Retrieved from http://www.aamft.org/imis15/AAMFT/Content/Consumer_Updates/Grandparents_Raising_Grandchildren.aspx

⁸ Population Reference Bureau. (2012). *More U.S. Children Raised by Grandparents*. Retrieved from <http://www.prb.org/Publications/Articles/2012/US-children-grandparents.aspx>

⁹ U.S. Department of Health & Human Services, Administration for Native Americans. (n.d.). *Native Languages*. Retrieved from <http://www.acf.hhs.gov/programs/ana/programs/native-language-preservation-maintenance>

¹⁰ Shields, M. & Behrman, R. (2004). Children of immigrant families: Analysis and recommendations. *The Future of Children*, 14(2). Retrieved from: https://www.princeton.edu/futureofchildren/publications/docs/14_02_1.pdf

What the Data Tell Us

According to the U.S. Census, the Graham/Greenlee Region had a population of 40,877 in 2010, of whom 3,903 (10%) were children under the age of six (see Table 1). Twenty percent of households in the region included a young child. According to the Arizona Department of Administration, the population of young children in Graham County was expected to decrease by 2015, and then begin increasing again into 2020 (see Table 3). In Greenlee County, the population of young children was expected to decrease into 2015 and then remain the same into 2020. The overall increase from 2010 to 2020 in the population of children under age 6 in Graham County (4%) is projected to be lower than the state of Arizona's projected increase (12%). In Greenlee County, the population of young children is projected to decrease by 12 percent into 2020.

Living arrangements of children in the Graham/Greenlee Region are similar to those in the state (see Figure 2 and Figure 3), with the majority of children living in married, two-parent families. In the Graham/Greenlee Region, very few (5%) children aged birth to 5 live with a foreign-born parent. Graham County had an even lower percentage of young children living with a foreign-born parent (3%). In Greenlee County this percentage was higher (11%), although still far below the proportion across the state as a whole (28%) (see Table 4). There are slightly more inter-generational households in the region than the state; 17 percent of children 5 and under live in a grandparent's household in the region, compared to 22 percent in Graham County, 19 percent in Greenlee County and 14 percent across the state (see Table 5), but fewer grandparents in the region are the primary caregiver than statewide (see Table 6).

Differences also exist between the region, counties, and the state relating to ethnicity and language. Forty-four percent of young children in the Graham/Greenlee Region are Hispanic or Latino. This is a higher percentage than in Graham County (34%), a lower percentage compared to Greenlee County (55%), but similar to the state of Arizona (45%) (see Table 7). A lower proportion of adults (those aged 18 and older) than children identify as Hispanic or Latino across all geographic levels. In the region, 35 percent of adults identify as Hispanic or Latino, which is more than in Graham County (29%) and the state (25%). In Greenlee County however, the proportion of adults identifying as Hispanic or Latino (44%) exceeds the region, Graham County, and the state (see Table 8). More households in the region (81%) are English speaking only compared to Arizona (73%) (see Figure 4).

Population and Households

Table 1. Population and households, 2010

	TOTAL POPULATION	POPULATION (AGES 0-5)	TOTAL NUMBER OF HOUSEHOLDS	HOUSEHOLDS WITH ONE OR MORE CHILDREN (AGES 0-5)	
Graham/Greenlee Region	40,877	3,903	13,249	2,600	20%
Graham County	37,220	3,830	11,120	2,448	22%
Greenlee County	8,437	794	3,188	566	18%
Arizona	6,392,017	546,609	2,380,990	384,441	16%

Source: U.S. Census Bureau (2010). 2010 Decennial Census, Summary File 1, Tables P1, P14, P20.
Retrieved from: <http://factfinder.census.gov>

Table 2. Population of children by single year-of-age, 2010

	AGES 0-5	AGE 0	AGE 1	AGE 2	AGE 3	AGE 4	AGE 5
Graham/Greenlee Region	3,903	614	669	677	663	641	639
Graham County	3,830	619	680	664	624	628	615
Greenlee County	794	117	131	144	140	123	139
Arizona	546,609	87,557	89,746	93,216	93,880	91,316	90,894

Source: U.S. Census Bureau (2010). 2010 Decennial Census, Summary File 1, Table P14.
Retrieved from: <http://factfinder.census.gov>

Note: Children age 0 were born between April 2009 and March 2010; children age 5 were born between April 2004 and March 2005.

Table 3. State and county population projections, 2015 & 2020

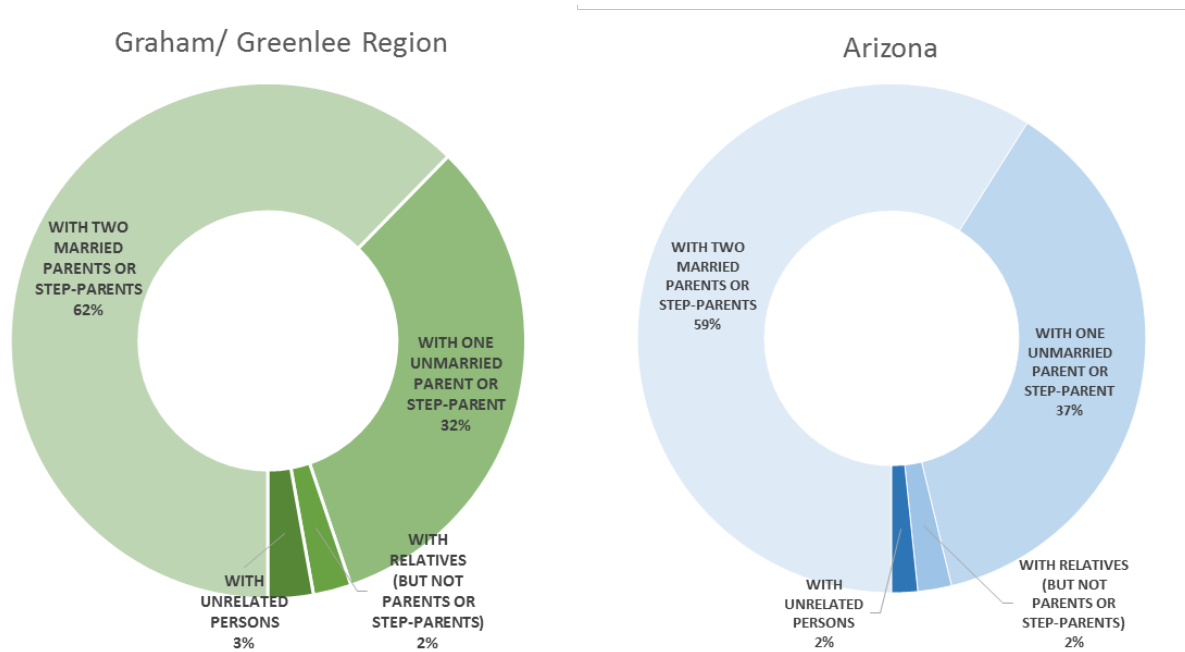
	POPULATION (AGES 0-5) IN 2010 CENSUS	PROJECTED POPULATION (AGES 0-5) IN 2015	PROJECTED POPULATION (AGES 0-5) IN 2020	PROJECTED CHANGE FROM 2010 TO 2020
Graham County	3,830	3,600	4,000	4%
Greenlee County	794	700	700	-12%
Arizona	546,609	537,200	610,400	12%

Sources: Arizona Dept. of Administration, Employment and Population Statistics, "2012-2050 State and county population projections" & 2010 U.S. Census

Note: Regional data were not available for this indicator.

Living Arrangements for Young Children

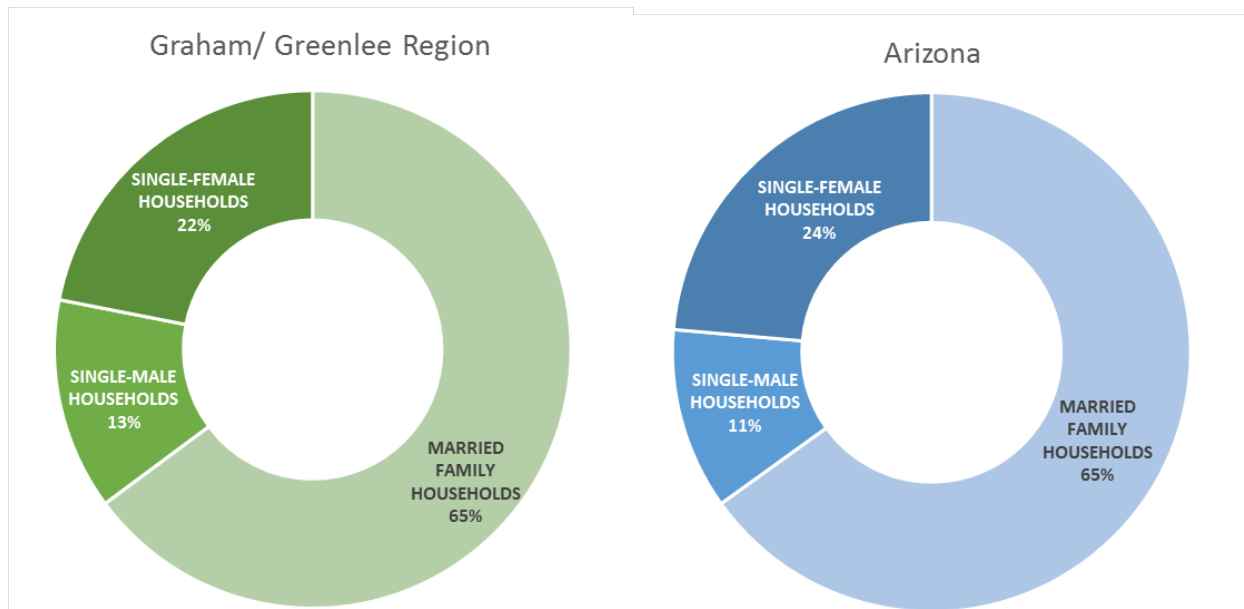
Figure 2. Living arrangements for children (ages 0-5), 2009-2013 five-year estimate



Source: American Community Survey, 5-year estimates (2009-2013), Tables B05009, B09001, B17006

Retrieved from: <http://factfinder.census.gov>

Figure 3. Heads of households in which young children (ages 0-5) live, 2010



Source: U.S. Census Bureau (2010). 2010 Decennial Census, Summary File 1, Tables P20, P32.

Retrieved from: <http://factfinder.census.gov>

Table 4. Children (ages 0-5) living with one or two foreign-born parents, 2009-2013 five-year estimate

CHILDREN (0-5) LIVING WITH ONE OR TWO FOREIGN-BORN PARENTS	
Graham/Greenlee Region	5%
Graham County	3%
Greenlee County	11%
Arizona	28%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B05009. Retrieved from: <http://factfinder.census.gov>

Table 5. Children (ages 0-5) living in the household of a grandparent, 2010

CHILDREN (0-5) LIVING IN A GRANDPARENT'S HOUSEHOLD	
Graham/Greenlee Region	17%
Graham County	22%
Greenlee County	19%
Arizona	14%

Source: U.S. Census Bureau (2010). 2010 Decennial Census, Summary File 1, Table P41. Retrieved from: <http://factfinder.census.gov>

Table 6. Grandparents responsible for grandchildren (ages 0-17) living with them, 2009-2013 five-year estimate

	GRANDCHILDREN (0-17) LIVING WITH GRANDPARENT HOUSEHOLDER	GRANDPARENT HOUSEHOLDER RESPONSIBLE FOR OWN GRANDCHILDREN (0-17)		GRANDPARENT HOUSEHOLDER RESPONSIBLE FOR OWN GRANDCHILDREN (0-17) WITH NO PARENT PRESENT	
		Count	Percentage	Count	Percentage
Graham/Greenlee Region	1,157	448	39%	87	8%
Graham County	1,431	538	38%	78	5%
Greenlee County	265	158	60%	32	12%
Arizona	137,753	73,467	53%	20,102	15%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B10002. Retrieved from: <http://factfinder.census.gov>

Race, Ethnicity, and Language

Table 7. Race and ethnicity of the population of young children (ages 0-4), 2010

	TOTAL POPULATION (AGES 0-4)	HISPANIC OR LATINO	WHITE, NOT HISPANIC	BLACK OR AFRICAN AMERICAN	AMERICAN INDIAN	ASIAN OR PACIFIC ISLANDER
Graham/Greenlee Region	3,264	44%	52%	1%	2%	1%
Graham County	3,215	34%	45%	1%	20%	0%
Greenlee County	655	55%	40%	1%	3%	1%
Arizona	455,715	45%	40%	5%	6%	3%

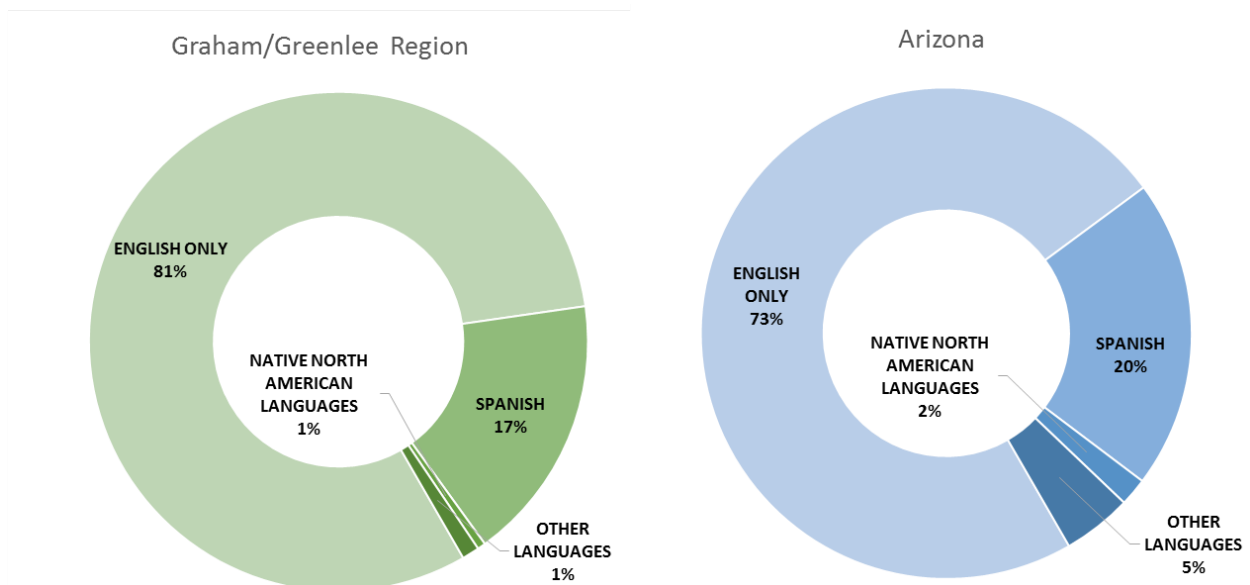
Source: U.S. Census Bureau (2010). 2010 Decennial Census, Summary File 1, Tables P12A-H.
Retrieved from: <http://factfinder.census.gov>

Table 8. Race and ethnicity of the adult population (ages 18 and older), 2010

	TOTAL POPULATION (AGES 18+)	HISPANIC OR LATINO	NOT HISPANIC OR LATINO				
			WHITE	BLACK OR AFRICAN AMERICAN	AMERICAN INDIAN	ASIAN OR PACIFIC ISLANDER	OTHER
Graham/Greenlee Region	29,728	35%	60%	2%	2%	1%	1%
Graham County	26,645	29%	55%	2%	12%	1%	1%
Greenlee County	5,974	44%	52%	1%	2%	1%	1%
Arizona	4,763,003	25%	63%	4%	4%	3%	1%

Source: U.S. Census Bureau (2010). 2010 Decennial Census, Summary File 1, Table P11
Retrieved from: <http://factfinder.census.gov>

Figure 4. Language spoken at home, by persons ages 5 and older, 2009-2013 five-year estimate



Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B16001.
Retrieved from: <http://factfinder.census.gov>

Table 9. Household use of languages other than English, 2009-2013 five-year estimate

	NUMBER OF HOUSEHOLDS	HOUSEHOLDS IN WHICH A LANGUAGE OTHER THAN ENGLISH IS SPOKEN	LIMITED ENGLISH SPEAKING HOUSEHOLDS (TOTAL)	LIMITED ENGLISH SPEAKING HOUSEHOLDS (SPANISH)	LIMITED ENGLISH SPEAKING HOUSEHOLDS (NOT SPANISH)
Graham/Greenlee Region	13,371	23%	2%	2%	0%
Graham County	11,031	25%	3%	1%	2%
Greenlee County	3,386	33%	3%	3%	0%
Arizona	2,370,289	27%	5%	4%	1%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B16002.
Retrieved from: <http://factfinder.census.gov>

Economic Circumstances

Why it Matters

Many economic factors contribute to a child's well-being, including family income, parent employment status, and the availability of safety-net programs such as housing and nutrition assistance.^{11,12} Understanding the economic context in which families with young children live is crucial when designing programs and policies intended to assist them.

Employment rates and income are common indicators of economic well-being. Unemployment and job loss often results in families having fewer resources to meet their regular monthly expenses and support their children's development. Family dynamics can be negatively impacted by job loss as reflected in higher levels of parental stress, family conflict and more punitive parental behaviors.¹³ Parental job loss can also impact children's school performance (shown by lower test scores, poorer attendance, higher risk of grade repetition, suspension or expulsion among children whose parents have lost their jobs.)¹⁴ Unemployment rates, therefore, can be an indicator of family stress, and are also an important indicator of regional economic vitality.

Employment rates and job opportunities contribute to the income families have available. It is estimated that families need an income of about twice the federal poverty level (FPL)¹⁵ to meet basic needs.¹⁶ Families earning less may experience unstable access to basic resources like food and housing. Food insecurity – the lack of reliable access to affordable, nutritious food – negatively impacts the health and well-being of children, including a heightened risk for developmental delays.¹⁷ High housing costs, relative to income, are associated with increased risk for homelessness, overcrowding, poor nutrition, frequent moving, lack of supervision while

¹¹ Annie E Casey Foundation. (2015). *Kids Count 2015 Data Book – State Trends in Child Well-being*. Retrieved from <http://www.aecf.org/m/databook/aecf-2015kidscountdatabook-2015-em.pdf>

¹² Kalil, A. (2013). Effects of the great recession on child development. *The Annals of the American Academy of Political and Social Science*, 650(1), 232-250. Retrieved from <http://ann.sagepub.com/content/650/1/232.full.pdf+html>

¹³ Isaacs, J. (2013). *Unemployment from a child's perspective*. Retrieved from <http://www.urban.org/UploadedPDF/1001671-Unemployment-from-a-Childs-Perspective.pdf>

¹⁴ Ibid

¹⁵ The 2015 FPL for a family of four is \$24,250. Source: U.S. Department of Health and Human Services. (2015). *2015 Poverty Guidelines*. Retrieved from: <http://aspe.hhs.gov/2015-poverty-guidelines>

¹⁶ National Center for Children in Poverty. (2015). *Arizona Demographics of Low-income Children*. Retrieved from http://www.nccp.org/profiles/AZ_profile_6.html

¹⁷ Rose-Jacobs, R., Black, M. M., Casey, P. H., Cook, J. T., Cutts, D. B., Chilton, M., Heeren, T., Levenson, S. M., Meyers, A. F., & Frank, D. A. (2008). Household food insecurity: Associations with at-risk infant and toddler development. *Pediatrics*, 121(1), 65-72. Retrieved from <http://pediatrics.aappublications.org/content/121/1/65.full.pdf>

parents are at work, and low cognitive achievement.¹⁸ Poverty, especially among children, can have far reaching negative consequences, including an effect on brain development and later cognitive ability.¹⁹

Public assistance programs are one way of combating the effects of poverty and providing supports to children and families in need. Temporary Assistance for Needy Families²⁰ (TANF, which has replaced previous welfare programs) provides cash assistance and services to the very poor and can help offset some of the economic circumstances of families that may have a detrimental effect on young children. Another safety net program, the Supplemental Nutrition Assistance Program (SNAP, also referred to as “Nutrition Assistance” and “food stamps”) has been shown to help reduce hunger and improve access to healthier food.²¹ SNAP benefits support working families whose incomes simply do not provide for all their needs. For low-income working families, the additional income from SNAP is substantial. For example, for a three-person family with one person whose wage is \$10 per hour, SNAP benefits boost take-home income by ten to 20 percent.²² Similarly, the National School Lunch Program²³ provides free and reduced-price meals at school for students whose families meet income criteria. These income criteria are 130 percent of the federal poverty level (FPL) for free lunch, and 185 percent of the FPL for reduced price lunch.

¹⁸ The Federal Interagency Forum on Child and Family Statistics. (2015). *America's Children: Key National Indicators of Well-Being, 2015*. Retrieved from http://www.childstats.gov/pdf/ac2015/ac_15.pdf

¹⁹ Noble, K.G., Houston, S.M., Brito, N.H., Bartsch, H. Kan E., et. al. (2015). Family income, parental education and brain structure in children and adolescents. *Nature Neuroscience*, 18, 773–778. Retrieved from <http://www.nature.com/neuro/journal/v18/n5/full/nn.3983.html#close>

²⁰ In Arizona, TANF eligibility is capped at \$335 per month, or \$4020 annually for a family of four, and has recently undergone significant changes. Beginning in 2016, Arizona will become the first and only state that limits a person’s lifetime benefit to 12 months. In addition, since 2009, a steadily decreasing percentage of Arizona TANF funds have been spent on three of the key assistance categories: cash assistance to meet basic needs, helping connect parents to employment opportunities, and child care. In 2013, Arizona ranked 51st, 47th, and 46th respectively in proportional spending in those categories across all states and the District of Columbia. Meanwhile, since 2009, an increasing percentage of Arizona TANF funds have been spent on other costs such as child protection, foster care, and adoption. Sources: Reilly, T., and Vitek, K. (2015). *TANF cuts: Is Arizona shortsighted in its dwindling support for poor families?* Retrieved from https://morrisoninstitute.asu.edu/sites/default/files/content/products/TANF.doc_0.pdf; Floyd, I., Pavetti, L., and Schott, L. (2015). *How states use federal and state funds under the TANF block grant*. Retrieved from <http://www.cbpp.org/research/family-income-support/how-states-use-federal-and-state-funds-under-the-tanf-block-grant>;

²¹ Food Research and Action Center. (2013). *SNAP and Public Health: The Role of the Supplemental Nutrition Assistance Program in Improving the Health and Well-Being of Americans*. Retrieved from http://frac.org/pdf/snap_and_public_health_2013.pdf

²² Ibid

²³ United States Department of Agriculture, Food and Nutrition Service. (2015). *National School Lunch Program (NSLP)*. Retrieved from <http://www.fns.usda.gov/nslp/national-school-lunch-program-nslp>

What the Data Tell Us

Seventeen percent of the total (all-age) population of the Graham/Greenlee Region lives in poverty, which is lower than in Graham County (22% in poverty) and the state (18%), but slightly higher than in Greenlee County (16%) (see Figure 5). The percentage of the population aged 0-5 in poverty in the Graham/Greenlee Region (18%) is only slightly higher than the total population in the region in poverty (17%), but lower than the population of children aged 0-5 living in poverty across Graham County (27%) or the state (28%). Again the pattern compared to Greenlee County is different, where a lower proportion of young children live in poverty (16%) compared to the region (18%). In addition to the families whose incomes fall below the federal poverty level, a proportion of households in the region and county are considered low income (i.e., near but not below the federal poverty level [FPL]). Just under half of all families (46%) in the region with children aged four and under live below 185 percent of the FPL (i.e., earned less than \$3,677²⁴ a month for a family of four) compared to 54 percent in Graham County, 41 percent in Greenlee County, and 48 percent statewide (see Table 10).

Other indicators related to poverty also vary across the region, counties and state. Unemployment rates have dropped in both counties and the state since 2010, although the decrease in Greenlee County has been the largest, from a high of 19 percent in 2009 to just seven percent in 2014 (see Figure 7). The proportion of housing units costing more than 30 percent of the owners' or renters' income also varies greatly, although the region, Graham County, and Greenlee County all have a lower proportion (24%, 26%, and 15% respectively) than the state (36%) (see Table 13). In contrast, the foreclosure rate in the region (17 per 10,000 homes) was more than double the rate statewide (7.2 per 10,000).

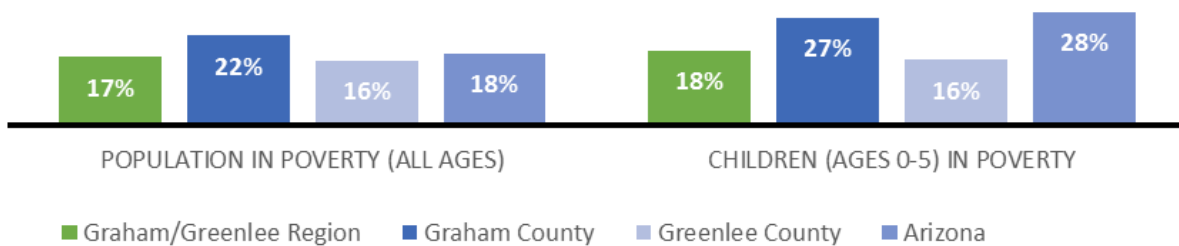
The percentages of children aged 5 and under receiving Temporary Assistance for Needy Families (TANF) from 2012 to 2014 were low for the region, counties, and the state (see Table 14). Other safety net programs, such as the Supplemental Nutrition Assistance Program (SNAP) and the school-based free or reduced-price lunch program, reached more children. For SNAP, about half of young children in the Graham/Greenlee Region received this benefit in the years 2012 through 2014, similar to Graham County and across the state as a whole (see Table 15). In Greenlee County, use was lower, with roughly a third of young children receiving SNAP between 2012 and 2014. For both TANF and SNAP, the percentage of young children receiving this benefit has decreased between 2012 and 2014. More than half of students in Graham County have been eligible for free or reduced-price lunch since 2012, and the percentage has decreased from 57 percent in 2012 to 53 percent in 2014 (see Table 16). In Greenlee County, a

²⁴ Based on 2014 FPL Guidelines, see <http://aspe.hhs.gov/2014-poverty-guidelines>

lower proportion of students were eligible for this benefit, decreasing slightly from 41 percent in 2012 to 40 percent in 2014. At the same time, the percent across the state has remained at 57 or 58 percent.

Poverty and Income

Figure 5. Percent of population in poverty, 2009-2013 five-year estimate



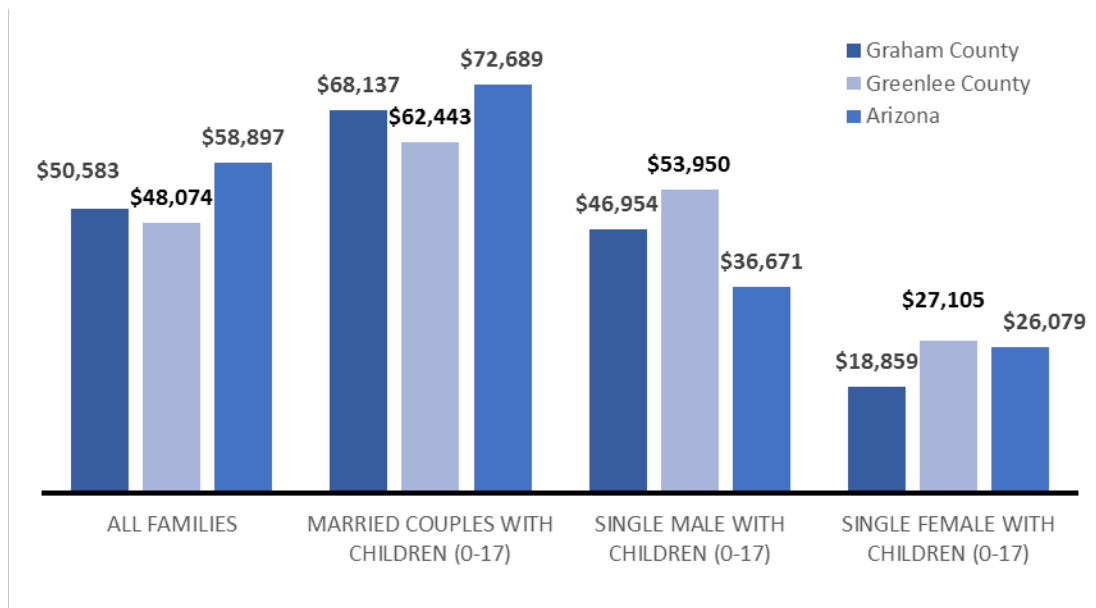
Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B17001.
Retrieved from: <http://factfinder.census.gov>

Table 10. Federal poverty levels for families with young children (ages 0-4), 2009-2013 five-year estimate

	FAMILIES WITH CHILDREN 0-4	FAMILIES WITH CHILDREN 0-4			
		BELOW POVERTY	BELOW 130% POVERTY	BELOW 150% POVERTY	BELOW 185% POVERTY
Graham/Greenlee Region	2,086	20%	30%	37%	46%
Graham County	1,786	26%	37%	45%	54%
Greenlee County	590	18%	29%	34%	41%
Arizona	307,126	26%	35%	40%	48%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Tables 17010 and 17022.
Retrieved from: <http://factfinder.census.gov>

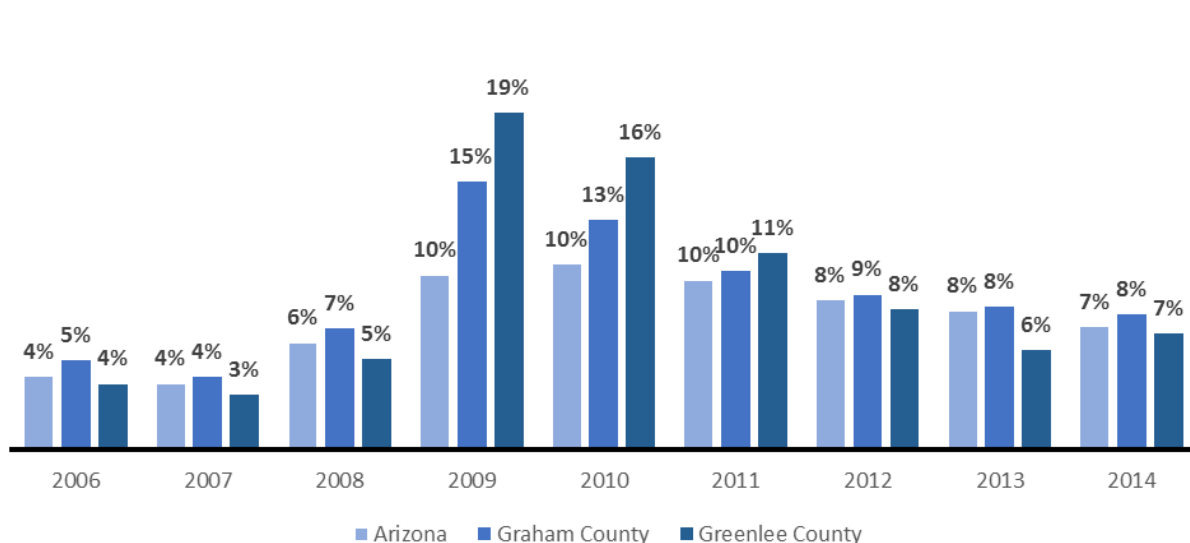
Figure 6. Median annual family incomes, 2009-2013 five-year estimate



Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B19126. Retrieved from: <http://factfinder.census.gov>

Employment and Housing

Figure 7. Average annual unemployment rates, 2006-2014



Source: Arizona Labor Statistics (2015). Local Area Unemployment Statistics (LAUS). Retrieved from: <https://laborstats.az.gov/local-area-unemployment-statistics>

Table 11. Parents of young children (ages 0-5) who are or are not in the labor force, 2009-2013 five-year estimate

	ESTIMATED NUMBER OF CHILDREN (AGES 0-5) LIVING WITH ONE OR TWO PARENTS	CHILDREN (0-5) LIVING WITH TWO PARENTS			CHILDREN (0-5) LIVING WITH ONE PARENT	
		BOTH PARENTS IN LABOR FORCE	ONE PARENT IN LABOR FORCE	NEITHER PARENT IN LABOR FORCE	PARENT IN LABOR FORCE	PARENT NOT IN LABOR FORCE
Graham/Greenlee Region	3,615	23%	43%	0%	23%	12%
Graham County	3,598	21%	40%	0%	23%	16%
Greenlee County	657	16%	37%	0%	39%	9%
Arizona	517,766	31%	29%	1%	29%	10%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B23008.

Retrieved from: <http://factfinder.census.gov>

Note: Persons who are unemployed but looking for work are considered to be "in the labor force."

Table 12. Vacant and occupied housing units, 2009-2013 five-year estimate

	TOTAL HOUSING UNITS	OCCUPIED HOUSING UNITS	VACANT HOUSING	
			UNITS (NON- SEASONAL)	UNITS (SEASONAL)
Graham/Greenlee Region	16,281	82%	15%	3%
Graham County	13,126	84%	13%	3%
Greenlee County	4,381	77%	18%	5%
Arizona	2,859,768	83%	10%	7%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B25002, B25106.

Retrieved from: <http://factfinder.census.gov>

Note: Seasonal units are intended for use only in certain seasons or for weekends or other occasional use.

Table 13. Occupied housing units, costs relative to income, and foreclosures, 2009-2013 five-year estimate

	NUMBER OF OCCUPIED HOUSING UNITS	UNITS WHICH COST THE OWNER OR RENTER MORE THAN 30% OF THEIR INCOME		FORECLOSURE RATE (PER 10,000 HOUSING UNITS)
Graham/Greenlee Region	13,371	3,187	24%	17.0
Graham County	11,031	2,817	26%	7.0
Greenlee County	3,386	519	15%	N/A
Arizona	2,370,289	847,315	36%	7.2

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B25002, B25106. RealtyTrac (2015). Real Estate Trend & Market Info.

Retrieved from: <http://factfinder.census.gov>; <http://www.realtytrac.com/statsandtrends/az>

Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Economic Supports

Table 14. Children (ages 0-5) receiving Temporary Assistance to Needy Families (TANF), 2012-2014

	CENSUS 2010 POPULATION (AGES 0-5)	CHILDREN (AGES 0-5) RECEIVING TANF			CHANGE FROM 2012 TO 2014
		2012	2013	2014	
Graham/Greenlee Region	3,903	5%	4%	3%	-31%
Graham County	3,830	8%	7%	6%	-17%
Greenlee County	794	4%	4%	3%	-23%
Arizona	546,609	5%	5%	4%	-26%

Source: The Arizona Department of Economic Security (July 2015). [SNAP/TANF Dataset]. Unpublished data.

Note: The data reflect unduplicated counts of children served during each calendar year.

Table 15. Children (ages 0-5) in the Supplemental Nutrition Assistance Program (SNAP), 2012-2014

	CENSUS 2010 POPULATION (AGES 0-5)	CHILDREN (AGES 0-5) RECEIVING SNAP			CHANGE FROM 2012 TO 2014
		2012	2013	2014	
Graham/Greenlee Region	3,903	51%	49%	45%	-12%
Graham County	3,830	53%	52%	49%	-8%
Greenlee County	794	40%	34%	30%	-24%
Arizona	546,609	54%	53%	51%	-7%

Source: The Arizona Department of Economic Security (July 2015). [SNAP/TANF Dataset]. Unpublished data.

Note: The data reflect unduplicated counts of children served during each calendar year.

Table 16. Students eligible for free or reduced-price lunch, 2012-2014

	STUDENTS ELIGIBLE FOR FREE OR REDUCED- PRICE LUNCH		
	2012	2013	2014
Graham County	57%	57%	53%
Greenlee County	41%	41%	40%
Arizona	57%	57%	58%

Source: The Arizona Department of Education (July 2015). [Education Dataset]. Unpublished data.

Note: Regional data were not available for this indicator.

Educational Indicators

Why it Matters

Characteristics of educational involvement and achievement in a region, such as school attendance, standardized tests scores, graduation rates, and the overall level of education of adults, all impact the developmental and economic resources available to young children and their families. Education, in and of itself, is an important factor in how able parents and caregivers are to provide for the children in their care. Parents who graduate from high school earn more and are less likely to rely on public assistance programs than those without high school degrees.^{25,26} Higher levels of education are associated with better housing, neighborhood of residence, and working conditions, all of which are important for the health and well-being of children.^{27,28}

Early school attendance and performance can set the stage for later achievement.

Absenteeism in kindergarten is already an indicator of the likelihood of higher rates of absences later in a student's school career, as well as lower achievement in reading and math.²⁹ By third grade, reading ability is strongly associated with high school completion. One in six third graders who do not read proficiently will not graduate from high school on time, and the rates are even higher (23%) for children who were both not reading proficiently in third grade and living in poverty for at least a year.³⁰ In recognition of the importance of assuring that children are reading by the third grade, legislators enacted the Arizona Revised Statute §15-701 (also known as the *Move on When Reading* law) which states that as of school year 2013-2014 a student shall not be promoted from the third grade if the student obtains a score on the statewide reading assessment "that demonstrates that the pupil's reading falls far below the

²⁵ Planty, M., Hussar, W., Snyder, T., Provasnik, S., Kena, G., Dinkes, R., KewalRamani, A., & Kemp, J. (2008). *The Condition of Education 2008* (NCES 2008-031). National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education, Washington, D.C. Retrieved from: <http://nces.ed.gov/pubs2008/2008031.pdf>

²⁶ Waldfogel, J., Garfinkel, I., & Kelly, B. (2007). Welfare and the costs of public assistance. In C.R. Belfield and H.M. Levin (Eds.). *The price we pay: Economic and social consequences for inadequate education*. Washington, DC: The Brookings Institution, 160-174.

²⁷ Annie E. Casey Foundation. (2013). *The First Eight Years. Giving kids a foundation for lifelong success*. Retrieved from <http://www.aecf.org/m/resourcedoc/AECF-TheFirstEightYearsKCpolicyreport-2013.pdf>

²⁸ Lynch, J., & Kaplan, G. (2000). Socioeconomic position (pp. 13-35). In *Social Epidemiology*. Berkman, L. F. & Kawachi, I. (Eds.). New York: Oxford University Press.

²⁹ Romero, M., & Lee, Y. (2007). *A National Portrait of Chronic Absenteeism in the Early Grades*. New York, NY: The National Center for Children in Poverty. Retrieved from http://www.nccp.org/publications/pdf/text_771.pdf

³⁰ Hernandez, D. (2011). *Double jeopardy: How third-grade reading skills and poverty influence high school graduation*. The Annie E. Casey Foundation. Retrieved from <http://files.eric.ed.gov/fulltext/ED518818.pdf>.

third-grade level.” Exceptions exist for students identified with or being evaluated for learning disabilities, English language learners, and those with reading impairments.

From 2000-2014, the primary in-school performance of students in the public elementary schools in the state has been measured by Arizona’s Instrument to Measure Standards (AIMS).³¹ AIMS scores were used to meet the requirement of *Move on When Reading*.

However, a new summative assessment system which reflects Arizona’s K-12 academic standards, Arizona’s Measurement of Educational Readiness to Inform Teaching (AzMERIT), was implemented in the 2014-2015 school year.³² This assessment replaced the reading and mathematics portions of the AIMS test. Although it is not a graduation requirement, it will still be used to determine promotion from the third grade in accordance with Arizona Revised Statute §15-701.³³

AIMS results are included in this report, but future reports will use AzMERIT scores as they become available.

In order for children to be prepared to succeed on tests such as the AIMS or AzMERIT, research shows that early reading experiences, opportunities to build vocabularies and literacy rich environments are the most effective ways to support the literacy development of young children.³⁴

What the Data Tell Us

Completion of higher education is relatively uncommon the region. Adults aged 25 and older in the Graham/Greenlee Region, Graham County, and Greenlee County are less likely to have a bachelor’s degree or more (13%, 12% and 11% respectively) than adults across Arizona (27%) (Figure 8). Same-age adults in the region and county, however, are slightly more likely to have had some college or professional training than those across the state. High school drop-out rates were similar in Graham County and the state of Arizona but substantially lower in Greenlee County (see Table 17). In addition, four and five year graduation rates in 2013 in Greenlee County (91% for both) were higher than in Graham County and in the state (75% and 79% for both Graham County and Arizona). Graduation rates have decreased between 2011

³¹ For more information on the AIMS test, see <http://arizonaindicators.org/education/aims>

³² For more information on AzMERIT, see <http://www.azed.gov/assessment/azmerit/>

³³ For more information on Move on When Reading, see <http://www.azed.gov/mowr/>

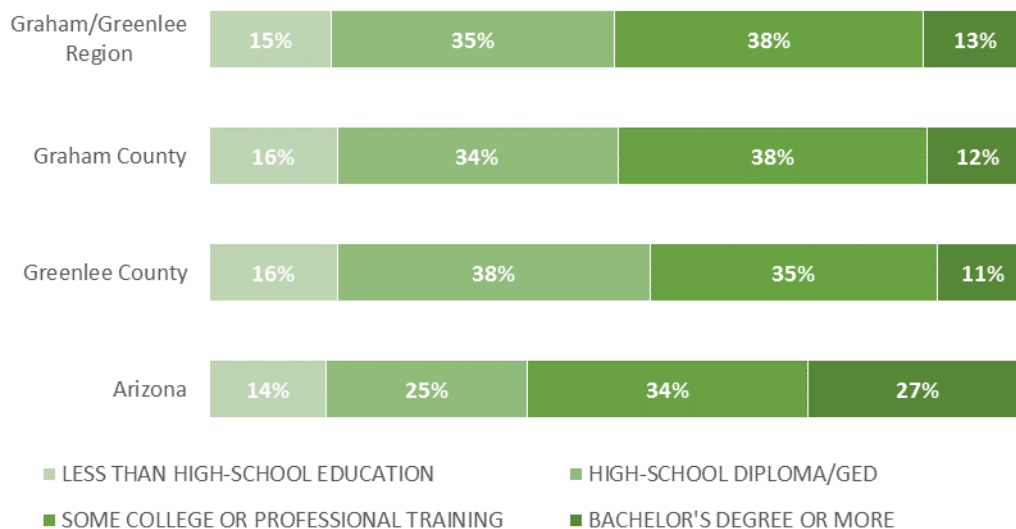
³⁴ First Things First. (2012). *Read All About It: School Success Rooted in Early Language and Literacy*. Retrieved from http://www.azftf.gov/WhoWeAre/Board/Documents/Policy_Brief_Q1-2012.pdf

and 2013 in Graham County and the state, but have increased during the same period in Greenlee County.

Child academic achievement varies by county within the region. Students “pass” Arizona’s Instrument to Measure Standards (AIMS) if they meet or exceed the standard. In Greenlee County, nearly half of students (49%) exceeded the standards, with 81 percent of students passing the Math test and 85 percent passing the Reading test in 2014 (see Figure 9 and Figure 10). Results in Graham County were more similar to those statewide; 70 percent of students passed the Math test and 75 percent passed the Reading test. Across Arizona, 69 percent of third grade students passed the AIMS Math test and 78 percent passed the AIMS reading test. A lower proportion of third graders in both counties scored “falls far below” in math compared to the state (7% in Graham County, 4% in Greenlee County and 10% in Arizona), and this pattern held for reading as well (1% in Graham and Greenlee Counties and 3% in Arizona scored “falls far below”).

Educational Attainment of the Adult Population

Figure 8. Level of education for the population ages 25 and older, 2009-2013 five-year estimate



Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B15002

Graduation and Drop-out Rates

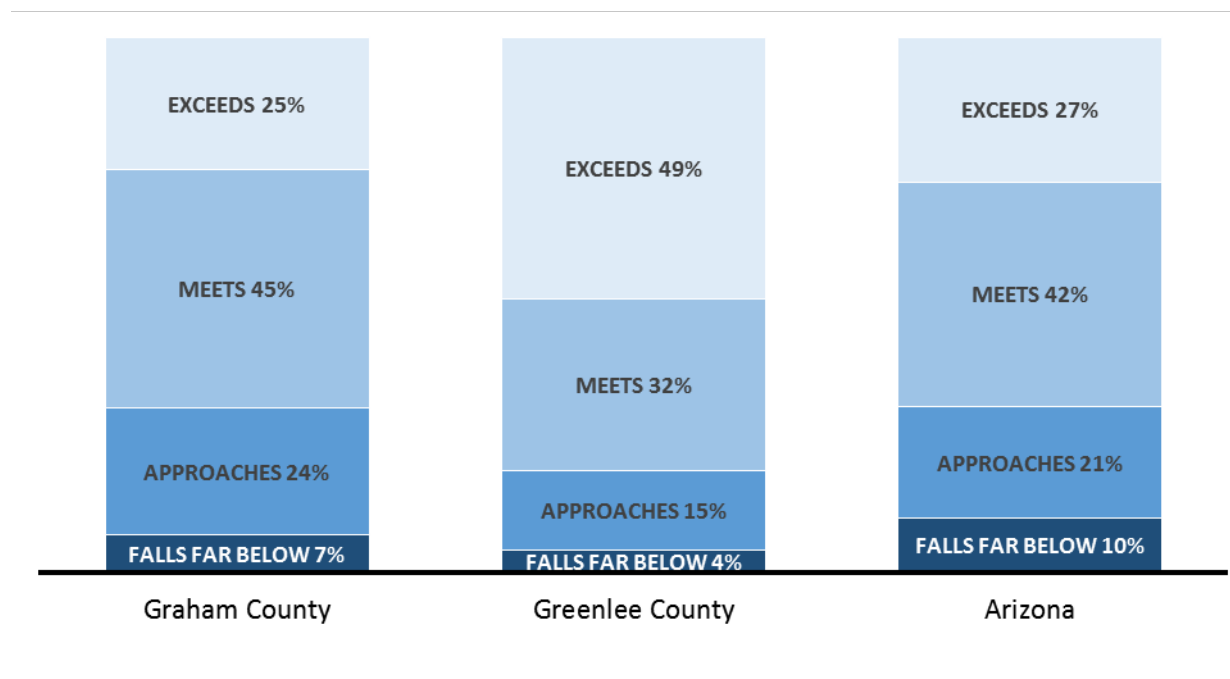
Table 17. Drop-out and graduation rates, 2012-2014

	DROPOUT RATE			FOUR-YEAR GRADUATION RATE			FIVE-YEAR GRADUATION RATE		
	FY 2012	FY 2013	FY 2014	2011 COHORT	2012 COHORT	2013 COHORT	2011 COHORT	2012 COHORT	2013 COHORT
Graham County	5%	4%	3%	82%	76%	75%	84%	78%	79%
Greenlee County	1%	0%	2%	83%	89%	91%	84%	90%	91%
Arizona	4%	4%	3%	78%	77%	75%	81%	80%	79%

Source: The Arizona Department of Education (July 2015). [Education dataset]. Unpublished data.
 Note: Regional data were not available for this indicator.

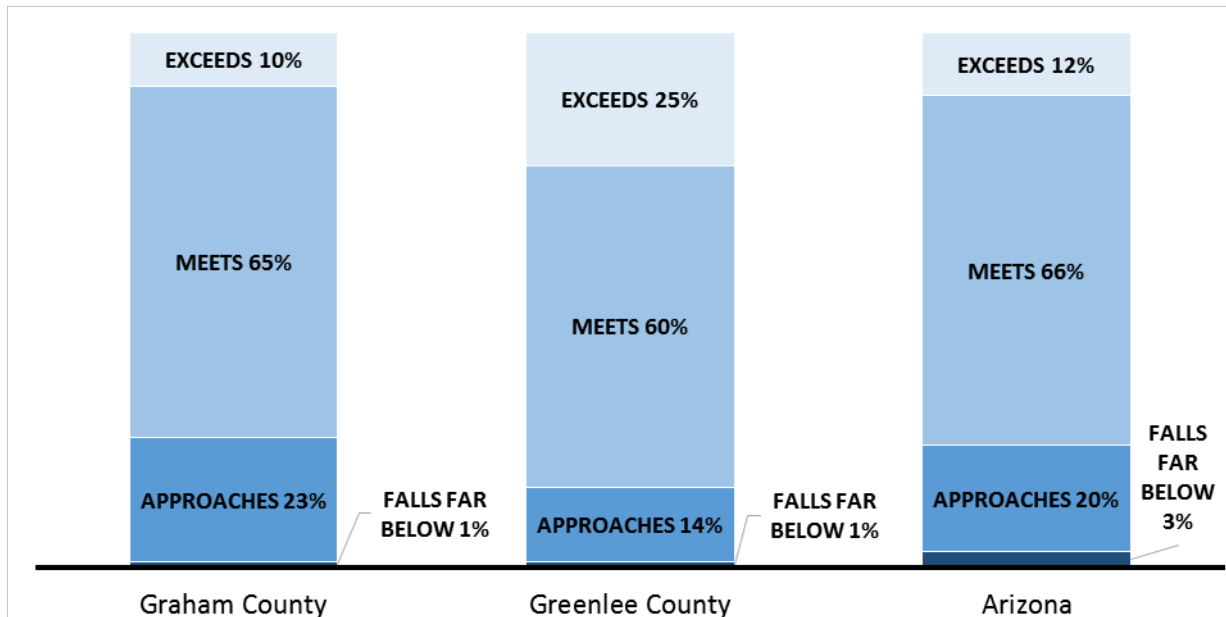
Third-grade Test Scores

Figure 9. Results of the 2014 third-grade AIMS Math test



Source: Arizona Department of Education, Research and Evaluation, "AIMS Assessment Results"
 Retrieved from: www.azed.gov/research-evaluation/aims-assessment-results

Figure 10. Results of the 2014 third-grade AIMS Reading test



Source: Arizona Department of Education, Research and Evaluation, "AIMS Assessment Results"
Retrieved from: www.azed.gov/research-evaluation/aims-assessment-results

Other Educational Indicators

Table 18. Percent of students (Pre-K through 3rd grade) who were homeless, 2012-2014

	HOMELESS IN 2012	HOMELESS IN 2013	HOMELESS IN 2014
Graham County	N/A	N/A	N/A
Greenlee County	N/A	N/A	N/A
Arizona	2%	2%	2%

Source: The Arizona Department of Education (July 2015). [Education dataset]. Unpublished data.

Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Note: Regional data were not available for this indicator.

Table 19. Attendance rates for first-, second-, and third-graders, 2014

	FIRST-GRADE ENROLLMENT	FIRST-GRADE ATTENDANCE RATE	SECOND-GRADE ENROLLMENT	SECOND-GRADE ATTENDANCE RATE	THIRD-GRADE ENROLLMENT	THIRD-GRADE ATTENDANCE RATE
Graham County	562	94%	521	95%	487	95%
Greenlee County	136	94%	137	94%	126	94%
Arizona	79,826	95%	76,666	95%	75,029	96%

Source: The Arizona Department of Education (July 2015). [Education dataset]. Unpublished data.

Note: Regional data were not available for this indicator.

Early Learning

Why it Matters

Early childhood marks a time of peak plasticity in the brain, and early adversity can weaken the foundation upon which future learning will be built; in other words, positive developmental experiences in early life are crucial.³⁵ Research has shown that the experiences that children have from birth to five years of age influence future health and well-being, and that supporting children during this time has a great return on investment.³⁶ Investing in high-quality early childhood programs, particularly for disadvantaged children, provides substantial benefits to society through increased educational achievement and employment, reductions in crime, and better overall health of those children as they mature into adults.^{37,38} Children whose education begins with high-quality preschool repeat grades less frequently, obtain higher scores on standardized tests, experience fewer behavior problems, and are more likely to graduate high school.³⁹

The ability of families to access quality, affordable early care and education opportunities, however, can be limited. The annual cost of full-time center-based care for a young child in Arizona is only slightly less than a year of tuition and fees at a public college.⁴⁰ Although the Department of Health and Human Services recommends that parents spend no more than 10 percent of their family income on child care,⁴¹ the cost of center-based care for a single infant, toddler, or 3-5 year old is an estimated 17, 15 and 11 percent, respectively, of an average Arizona family's income.⁴²

³⁵ Center on the Developing Child at Harvard University. (2010). *The Foundations of Lifelong Health Are Built in Early Childhood*. Retrieved from <http://developingchild.harvard.edu/wp-content/uploads/2015/05/Foundations-of-Lifelong-Health.pdf>

³⁶ Executive Office of the President of the United States. (2014). *The Economics of Early Childhood Investments*. Retrieved from https://www.whitehouse.gov/sites/default/files/docs/early_childhood_report1.pdf

³⁷ The Heckman Equation. (2013). *The Heckman Equation Brochure*. Retrieved from <http://heckmanequation.org/content/resource/heckman-equation-brochure-0>

³⁸ The Heckman Equation. (n.d.) *Research Summary: Abecedarian & Health*. Retrieved from <http://heckmanequation.org/content/resource/research-summary-abecedarian-health>

³⁹ Annie E. Casey Foundation. (2013). *The First Eight Years. Giving kids a foundation for lifelong success*. Retrieved from <http://www.aecf.org/m/resourcedoc/AECF-TheFirstEightYearsKCpolicyreport-2013.pdf>

⁴⁰ Child Care Aware® of America. (2014). *Parents and the High Cost of Child Care: 2014 Report*. Retrieved from https://www.ncsl.org/documents/cyf/2014_Parents_and_the_High_Cost_of_Child_Care.pdf

⁴¹ U.S. Department of Health and Human Services, Child Care Bureau (2008). *Child Care and Development Fund: Report of state and territory plans: FY 2008-2009*. Section 3.5.5 – Affordable co-payments, p. 89. Retrieved from <http://www.researchconnections.org/childcare/resources/14784/pdf>

⁴² The cost of center-based care as a percentage of income is based on the Arizona median annual family income of \$58,900.

Child care subsidies can help families who otherwise would be unable to access early learning services.⁴³ However, the availability of this type of support is also limited. The number of children receiving Child Care and Development Fund (CCDF) subsidies in Arizona is low. In 2014, only 26,685 children aged birth to 5 (about 5% of Arizona's children in this age range) received CCDF vouchers. With half of young children in Arizona living below the federal poverty level, the number in need of these subsidies is likely much higher than those receiving them.

The availability of services for young children with special needs is an ongoing concern across the state, particularly in more geographically remote communities. The services available to families include early intervention screening and intervention services provided through the Arizona Department of Education AZ FIND (Child Find),⁴⁴ the Arizona Early Intervention Program (AzEIP)⁴⁵ and the Division of Developmental Disabilities (DDD).⁴⁶ These programs help identify and assist families with young children who may need additional support to meet their potential. Timely intervention can help young children with, or at risk for, developmental delays improve language, cognitive, and social/emotional development. It also reduces educational costs by decreasing the need for special education.^{47,48,49}

⁴³ For more information on child care subsidies see <https://www.azdes.gov/child-care/>

⁴⁴ For more information on AZ FIND see <http://www.azed.gov/special-education/az-find/>

⁴⁵ For more information on AzEIP see <https://www.azdes.gov/azeip/>

⁴⁶ For more information on DDD see https://www.azdes.gov/developmental_disabilities/

⁴⁷ The National Early Childhood Technical Assistance Center. (2011). *The Importance of Early Intervention for Infants and Toddlers with Disabilities and their Families*. Retrieved from <http://www.nectac.org/~pdfs/pubs/importanceofearlyintervention.pdf>

⁴⁸ Hebbeler, K, Spiker, D, Bailey, D, Scarborough, A, Mallik, S, Simeonsson, R, Singer, M & Nelson, L. (2007). *Early intervention for infants and toddlers with disabilities and their families: Participants, services and outcomes. Final Report of the National Early Intervention Longitudinal Study (NEILS)*. Retrieved from http://www.sri.com/sites/default/files/publications/neils_finalreport_200702.pdf

⁴⁹ NECTAC Clearinghouse on Early Intervention and Early Childhood Special Education. (2005). *The long term economic benefits of high quality early childhood intervention programs*. Retrieved from <http://ectacenter.org/~pdfs/pubs/econbene.pdf>

What the Data Tell Us

In 2014, there were 23 licensed child care providers in the Graham/Greenlee Region, licensed to serve 716 children (see Table 20). All of these providers were classified as either family child care providers (n=14) or child care centers (n=9). The cost of care in Graham and Greenlee Counties varies by the type of care and the age of the child receiving care; generally the cost in licensed centers is more expensive than the cost in other types of facilities. Residents of Graham and Greenlee Counties tend to pay lower prices for child care centers but higher prices for approved family homes than residents statewide (see Table 21).

According to data from the American Community Survey, one-third (33%) of children aged 3 and 4 were enrolled in nursery school, preschool, or kindergarten in the Graham/Greenlee Region (see Table 23). Within the region, a much higher proportion (53%) were enrolled in school in Greenlee County. The enrollment rate in the region was similar to that of the state (35%).

In the Graham/Greenlee Region and Graham County, most referrals made to the Arizona Early Intervention Program (AzEIP) in FY 2014 were for children aged 13 to 24 months (n=37 for the region) (see Table 24). In the state, most referrals made were for children aged 25 to 35 months. The number of Division of Developmental Disabilities (DDD) service visits for children aged 0-2 decreased from 2013 to 2014 in the region, both counties and the state, with dramatic decreases in the region and Graham County (see Table 25). The number of DDD service visits for older children (ages 3-5) increased in the region and Graham County, an opposite pattern to Greenlee County and the state (see Table 26).

Early Care and Education

Table 20. Child care providers, number of providers and total licensed capacity, 2014

	CHILD CARE CENTERS		GROUP HOMES		FAMILY CHILD CARE		NANNY OR INDIVIDUAL		ALL TYPES OF CARE	
	NUM	LICENSED CAPACITY	NUM	LICENSED CAPACITY	NUM	LICENSED CAPACITY	NUM	LICENSED CAPACITY	NUM	LICENSED CAPACITY
Graham/ Greenlee Region	9	660	0	0	14	56	N/A	N/A	23	716
Graham County	6	322	0	0	12	48	N/A	N/A	18	370
Greenlee County	3	338	0	0	2	8	N/A	N/A	5	346
Arizona	2,020	219,482	272	2,683	833	3,312	54	211	3,179	225,688

Source: The Arizona Department of Economic Security (2015). [Child care dataset]. Unpublished data.

Note: "Licensed Capacity" refers to the number of children (of all ages) who may be served, according to the provider's license.

Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Table 21. Median daily charge for full-time child care, 2014

	MEDIAN DAILY CHARGE FOR FULL-TIME CHILD CARE IN LICENSED CHILD CARE CENTERS			MEDIAN DAILY CHARGE FOR FULL-TIME CHILD CARE IN APPROVED FAMILY HOMES			MEDIAN DAILY CHARGE FOR FULL-TIME CHILD CARE IN CERTIFIED GROUP HOMES		
	1 OR 2 YEAR		3 TO 5 YEAR	1 OR 2 YEAR		3 TO 5 YEAR	1 OR 2 YEAR		3 TO 5 YEAR
	INFANT	OLD	OLD	INFANT	OLD	OLD	INFANT	OLD	OLD
Graham County	\$32.60	\$29.77	\$28	\$25	\$25	\$24	\$25	\$25	\$25
Greenlee County	\$32.60	\$29.77	\$28	\$25	\$25	\$24	\$25	\$25	\$25
Arizona	\$42	\$38	\$33	\$22	\$20	\$20	\$27	\$25	\$25

Source: Arizona Department of Economic Security (2015). Child Care Market Rate Survey. Received by request.

Note: Regional data were not available for this indicator.

Note: Median daily charges for Graham and Greenlee Counties are based on data from Graham, Greenlee, Santa Cruz, and Cochise Counties.

Table 22. Cost of child care in a licensed center as a percentage of median family income

	MEDIAN ANNUAL FAMILY INCOME	CHARGE FOR FULL-TIME CHILDCARE IN A LICENSED CHILDCARE CENTER AS A PERCENTAGE OF MEDIAN INCOME		
		INFANT	1 OR 2 YEAR OLD	3 TO 5 YEAR OLD
Graham County	\$50,600	15%	14%	13%
Greenlee County	\$48,100	16%	15%	14%
Arizona	\$58,900	17%	15%	11%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B19126. Retrieved from <http://factfinder.census.gov>; Arizona Department of Economic Security (2015). [2014 Child care market rate survey data]. Received by request. Note: Regional data were not available for this indicator.

Table 23. Estimated number of children (ages 3 or 4) enrolled in nursery school, preschool, or kindergarten, 2009-2013 five-year estimate

	ESTIMATED POPULATION (AGES 3-4)	ENROLLED IN SCHOOL (AGES 3-4)	
Graham/Greenlee Region	1,417	463	33%
Graham County	1,309	402	31%
Greenlee County	301	161	53%
Arizona	185,310	65,591	35%

Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B14003. Retrieved from: <http://factfinder.census.gov>

Families with Children Who Have Special Needs

Table 24. AzEIP referrals and children served, 2014

	NUMBER OF AzEIP REFERRALS DURING FISCAL YEAR 2014			NUMBER OF CHILDREN BEING SERVED BY AzEIP ON OCTOBER 1, 2014		
	LESS THAN 1 YEAR OLD	FROM 13 TO 24 MONTHS OLD	FROM 25 TO 35 MONTHS OLD	LESS THAN 1 YEAR OLD	FROM 13 TO 24 MONTHS OLD	FROM 25 TO 35 MONTHS OLD
Graham/Greenlee Region	25	37	33	N/A	N/A	29
Graham County	N/A	31	28	N/A	N/A	25
Greenlee County	N/A	N/A	N/A	N/A	N/A	N/A
Arizona	2,651	3,669	5,421	746	1,659	2,843

Source: Arizona Department of Economic Security (July 2015). [Special needs dataset]. Unpublished data.

Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Table 25. Division of Developmental Disabilities (DDD) services to children (ages 0-2), 2013-2014

	CHILDREN (AGES 0-2) REFERRED TO DDD		CHILDREN (AGES 0-2) SCREENED BY DDD		CHILDREN (AGES 0-2) SERVED BY DDD		NUMBER OF DDD SERVICE VISITS TO CHILDREN (AGES 0-2)	
	FY 2013	FY 2014	FY 2013	FY 2014	FY 2013	FY 2014	FY 2013	FY 2014
Graham/Greenlee Region	N/A	N/A	N/A	0	N/A	N/A	1,128	162
Graham County	N/A	N/A	N/A	0	N/A	N/A	1,078	146
Greenlee Country	N/A	N/A	N/A	0	N/A	N/A	50	39
Arizona	2,186	2,479	314	216	2,693	2,341	158,496	130,486

Source: Arizona Department of Economic Security (July 2015). [Special needs dataset]. Unpublished data.

Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Table 26. Division of Developmental Disabilities (DDD) services to children (ages 3-5), 2013-2014

	CHILDREN (AGES 3-5) REFERRED TO DDD		CHILDREN (AGES 3-5) SCREENED BY DDD		CHILDREN (AGES 3-5) SERVED BY DDD		NUMBER OF DDD SERVICE VISITS TO CHILDREN (AGES 3-5)	
	FY 2013	FY 2014	FY 2013	FY 2014	FY 2013	FY 2014	FY 2013	FY 2014
Graham/Greenlee Region	N/A	N/A	N/A	N/A	N/A	N/A	808	895
Graham County	N/A	N/A	N/A	0	N/A	N/A	654	743
Greenlee County	N/A	N/A	0	N/A	N/A	N/A	154	152
Arizona	1,401	1,804	731	727	2,600	2,533	374,440	367,590

Source: Arizona Department of Economic Security (July 2015). [Special needs dataset]. Unpublished data.

Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Child Health

Why it Matters

The Institute of Medicine defines children's health as the extent to which children are able or enabled to develop and realize their potential, satisfy their needs, and develop the capacities that allow them to successfully interact with their biological, physical, and social environments.⁵⁰ Health therefore encompasses not only physical health, but also mental, intellectual, social, and emotional well-being. Children's health can be influenced by their mother's health and the environment into which they are born and raised.^{51,52} The health of a child in utero, at birth, and in early life can impact many aspects of a child's development and later life. Factors such as a mother's prenatal care, access to health care and health insurance, and receipt of preventive care such as immunizations and oral health care all influence not only a child's current health, but long-term development and success as well.^{53,54,55} In addition, nonfatal unintentional injuries substantially impact the well-being of children,⁵⁶ and injuries are the leading cause of death in children in the United States.⁵⁷

Healthy People is a science-based government initiative which provides 10-year national objectives for improving the health of Americans. Healthy People 2020 targets are developed with the use of current health data, baseline measures, and areas for specific

⁵⁰ National Research Council and Institute of Medicine. (2004). *Children's Health, the Nation's Wealth: Assessing and Improving Child Health*. Washington, DC: National Academies Press. Retrieved from <http://www.ncbi.nlm.nih.gov/books/NBK92198/#ch2.s3>

⁵¹ The Future of Children. (2015). *Policies to Promote Child Health*, (25) 1. Retrieved from <http://www.princeton.edu/futureofchildren/publications/docs/FOC-spring-2015.pdf>

⁵² Center on the Developing Child at Harvard University. (2010). *The Foundations of Lifelong Health Are Built in Early Childhood*. Retrieved from <http://developingchild.harvard.edu/wp-content/uploads/2015/05/Foundations-of-Lifelong-Health.pdf>

⁵³ Maternal and Child Health Bureau, Health Resources and Services Administration, U.S. Department of Health and Human Services. (n.d.) *Prenatal services*. Retrieved from <http://mchb.hrsa.gov/programs/womeninfants/prenatal.html>

⁵⁴ Patrick, D. L., Lee, R. S., Nucci, M., Grembowski, D., Jolles, C. Z., & Milgrom, P. (2006). Reducing oral health disparities: A focus on social and cultural determinants. *BMC Oral Health*, 6(Suppl 1), S4. Retrieved from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2147600/>

⁵⁵ Council on Children With Disabilities, Section on Developmental Behavioral Pediatrics, Bright Futures Steering Committee, and Medical Home Initiatives for Children With Special Needs Project Advisory Committee. (2006). Identifying infants and young children with developmental disorders in the medical home: An algorithm for developmental surveillance and screening. *Pediatrics*, 118s(1), 405-420. Retrieved from <http://pediatrics.aappublications.org/content/118/1/405.full>

⁵⁶ Danesco, E.R., Miller, T.R., & Spicer, R. S. (2000). Incidence and costs of 1987-1994 childhood injuries: Demographic breakdowns. *Pediatrics*, 105(2), E27. Retrieved from <http://pediatrics.aappublications.org/content/105/2/e27.long>

⁵⁷ Centers for Disease Control and Prevention, National Center for Injury Prevention and Control. (2013). *10 Leading Causes of Death by Age Group, United States-2013*. Retrieved from: http://www.cdc.gov/injury/images/lc-charts/leading_causes_of_death_by_age_group_2013-a.gif

improvement. Understanding where Arizona mothers and children fall in relation to these national benchmarks can help highlight areas of strength in relation to young children's health and those in need of improvement in the state. The Arizona Department of Health Services monitors state level progress towards a number of maternal, infant and child health objectives for which data are available at the regional level, including increasing the proportion of pregnant women who receive prenatal care in the first trimester; reducing low birth weight; reducing preterm births; and increasing abstinence from cigarette smoking among pregnant women.⁵⁸ Although not a target of a Healthy People 2020 objective, high-birth weight, or macrosomia, is also associated with health risks for both the mother and infant during birth. These children are also at increased risk for obesity and metabolic syndrome (which is linked to an increase risk of heart disease, stroke, and diabetes).⁵⁹

The ability to obtain health care is critical for supporting the health of young children. In the early years of a child's life, well-baby and well-child visits allow clinicians to offer developmentally appropriate information and guidance to parents and provide a chance for health professionals to assess the child's development and administer preventative care measures like vaccines and developmental screenings. Without health insurance, each visit can be prohibitively expensive and may be skipped.⁶⁰

What the Data Tell Us

The characteristics of mothers who gave birth in 2013 varied by geographical designation (see Table 27). For example, five percent of women giving birth in the Graham/Greenlee Region had fewer than five prenatal visits, compared to 11 percent in Graham County, four percent in Greenlee County, and five percent across the state overall. The region (and counties individually) are not meeting the Healthy People 2020 objectives related to the proportion of expectant mothers who receive prenatal care in the first trimester; at 23 percent, the region is above the Healthy People 2020 guideline of no more than 22.1 percent lacking first trimester care (see Figure 11). A much higher proportion of mothers in the Graham/Greenlee Region (9%), Graham County (8%) and Greenlee County (10%) reported smoking while pregnant than

⁵⁸ Arizona Department of Health Services. (2013). *Arizona Health Status and Vital Statistics 2013 Annual Report. Table 6A: Monitoring Progress Toward Arizona and Selected Healthy People 2020 Objectives: Statewide Trends* Retrieved from: http://www.azdhs.gov/plan/report/ahs/ahs2013/pdf/6a1_10.pdf

⁵⁹ Mayo Clinic Staff. (2015). *Fetal macrosomia*. Retrieved from <http://www.mayoclinic.org/diseases-conditions/fetal-macrosomia/basics/complications/con-20035423>

⁶⁰ Yeung, LF, Coates, RJ, Seeff, L, Monroe, JA, Lu, MC, & Boyle, CA. (2014). *Conclusions and future directions for periodic reporting on the use of selected clinical preventive services to improve the health of infants, children, and adolescents—United States. Morbidity and Mortality Weekly Report 2014, 63(Suppl-2), 99-107*. Retrieved from <http://www.cdc.gov/mmwr/pdf/other/su6302.pdf>.

across the state (4%). This places the region far above the Healthy People 2020 target maximum of only 1.4 percent of women who smoke while pregnant.

The Graham/Greenlee Region is, however, meeting objectives of Healthy People 2020 for infant and child health. Healthy People 2020 objectives include that fewer than 7.8 percent of babies are born at low birth weights and fewer than 11.4 percent are born preterm. In the region in 2013, seven percent of babies were low birth weight and 11 percent were premature (see Figure 12).

Non-fatal emergency department visits for unintentional injuries for children under age six in Greenlee County and the state have been on the decline between 2012 and 2014, but there were about as many injuries in 2014 as there were in 2012 in Graham County (see Table 29).

A key factor in health care is health insurance, and 10 percent of young children in the region lack health insurance. This is a lower percentage than in either Graham (15%) or Greenlee (21%) County, but the same as the proportion statewide (see Figure 15). Compared to young children, members of the total (all ages) population of the region, Graham County, and state were more likely to lack health insurance. In contrast, in Greenlee County, the total population was less likely to be uninsured (14%) compared to young children in the county (21%).

While immunization rates vary by vaccine, over 90 percent of children in child care in the Graham/Greenlee Region had completed each of the three major (DTAP, polio, and MMR) vaccine series (see Table 31). The Healthy People 2020 Target for vaccination coverage for children ages 19-35 months for these vaccines is 90 percent,⁶¹ suggesting the region is meeting this goal. However, given that state regulations require children enrolled in child care to be up to date on immunizations, it is possible that the rates of immunization for children in child care are higher than immunization rates for children not in child care.⁶² If that is the case, the rates for the entire population of children in these areas may be lower than the Healthy People 2020 goal. Notably, Greenlee County only had 89 percent of children in child care who were up to date on the diphtheria, tetanus, and pertussis (DTAP) vaccine, putting it below the Healthy People 2020 target. In the region, children in kindergarten were generally vaccinated at slightly

⁶¹ U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. (2015). *Immunization and Infectious Diseases*. Washington, DC. Retrieved from: <https://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases/objectives>.

⁶² For example, the National Immunization Survey (NIS) monitors vaccination coverage among U.S. children aged 19–35 months, and estimates the Arizona statewide rate for DTAP (Diphtheria, Tetanus, Pertussis, 4 or more doses) to be about 81 percent and the statewide rate for MMR (Measles, Mumps and Rubella, 1 or more doses) to be about 84 percent. Source: Hill, H., Elam-Evans, L., Yankey, D., Singleton, J., Kolasa, M. (2015). National, state, and selected local area vaccination coverage among children aged 19–35 months—United States. *Morbidity and Mortality Weekly Report*, 2014, 64(33), 889-896. Retrieved from: <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6433a1.htm>

lower rates than children in child care, and the region’s rates of vaccine coverage for kindergarteners were also below those at the state level (Table 32).

Mothers Giving Birth

Table 27. Selected characteristics of mothers giving birth, 2013

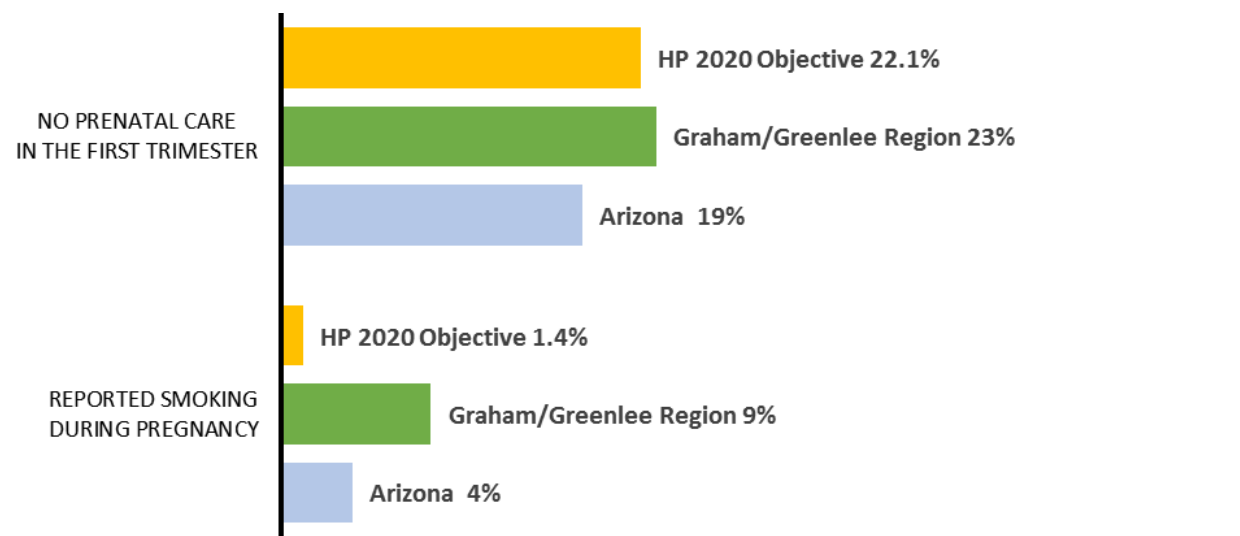
	TOTAL NUMBER BIRTHS TO ARIZONA-RESIDENT MOTHERS, 2013	HAD FEWER THAN 5 PRENATAL VISITS	HAD NO PRENATAL CARE IN FIRST TRIMESTER	MOTHER REPORTED SMOKING DURING PREGNANCY	MOTHER REPORTED DRINKING DURING PREGNANCY	MOTHER HAD LESS THAN A HIGH SCHOOL-EDUCATION	MOTHERS YOUNGER THAN 20 YEARS OLD	MOTHERS YOUNGER THAN 18 YEARS OLD	BIRTH WAS PAID FOR BY AHCCCS OR IHS (PUBLIC PAYOR)
Graham/Greenlee Region	621	5%	23%	9%	0%	15-16%	10%	N/A	46%
Graham County	600	11%	28%	8%	N/A	19%	12%	4%	56%
Greenlee County	125	4%	26%	10%	N/A	16%	10%	N/A	34%
Arizona	84,963	5%	19%	4%	0%	18%	9%	2%	55%

Source: Arizona Department of Health Services (July 2015). [Vital statistics dataset]. Unpublished data.

Note: “Due to data suppression policies, exact numbers cannot be calculated for this indicator”

Note: Entries of “N/A” indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Figure 11. Healthy People 2020 objectives for mothers, compared to 2013 region and state data



Source: Arizona Department of Health Services (July 2015). [Vital statistics dataset]. Unpublished data. Arizona Department of Health Services (2015). Status on Healthy People 2020 Objectives, Table 6A. Retrieved from <http://www.azdhs.gov/plan/menu/info/status.php>

Infant Health

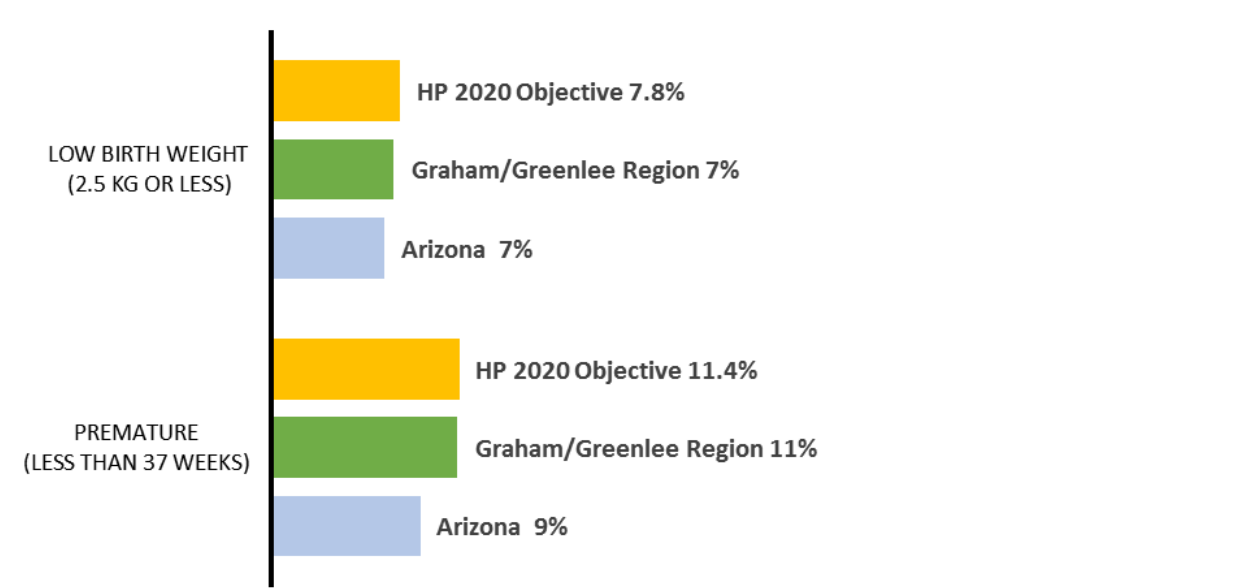
Table 28. Selected characteristics of babies born, 2013

	TOTAL NUMBER OF BIRTHS TO ARIZONA-RESIDENT MOTHERS, 2013	BABY HAD LOW BIRTH WEIGHT (2.5 kg OR LESS)	BABY HAD HIGH BIRTH WEIGHT (4 kg OR MORE)	BABY WAS PREMATURE (LESS THAN 37 WEEKS)	BABY WAS IN NEONATAL INTENSIVE CARE
Graham/Greenlee Region	621	7%	5%	11%	5%
Graham County	600	8%	6%	11%	5%
Greenlee County	125	6%	6%	12%	N/A
Arizona	84,963	7%	8%	9%	5%

Source: Arizona Department of Health Services (July 2015). [Vital statistics dataset]. Unpublished data.

Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Figure 12. Healthy People 2020 objectives for babies, compared to 2013 region and state data



Source: Arizona Department of Health Services (July 2015). [Vital statistics dataset]. Unpublished data. Arizona Department of Health Services (2015). Status on Healthy People 2020 Objectives, Table 6A. Retrieved from <http://www.azdhs.gov/plan/menu/info/status.php>

Table 29. Unintentional injuries to children (ages 0-5), 2012-2014

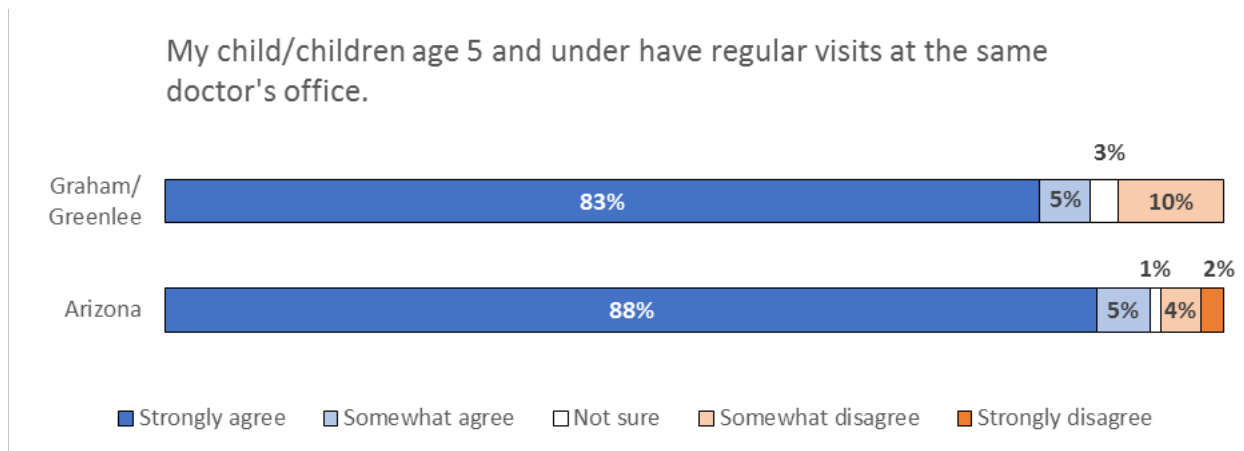
	NON-FATAL INPATIENT HOSPITALIZATIONS			NON-FATAL EMERGENCY DEPARTMENT VISITS		
	2012	2013	2014	2012	2013	2014
Graham County	N/A	N/A	N/A	459	387	457
Greenlee	N/A	N/A	N/A	44	35	30
Arizona	1,306	1,049	901	49,453	46,407	46,033

Source: Arizona Department of Health Services (June 2015). [Injury report]. Received by request.

Note: Regional data were not available for this indicator.

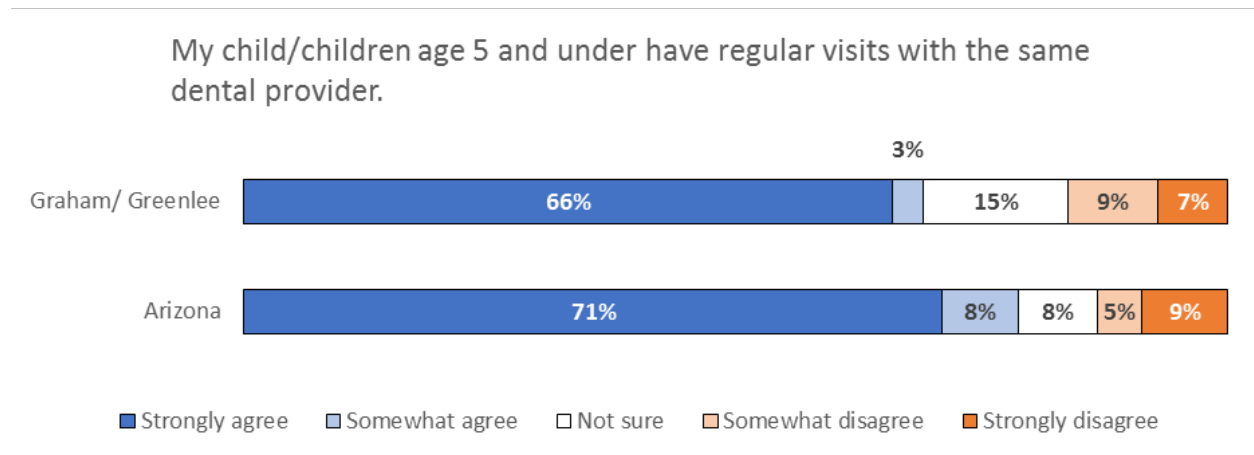
Note: Entries of "N/A" indicate percentages which cannot be reported because of data suppression, or are otherwise not available.

Figure 13. Regular visits at the same doctor's office (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

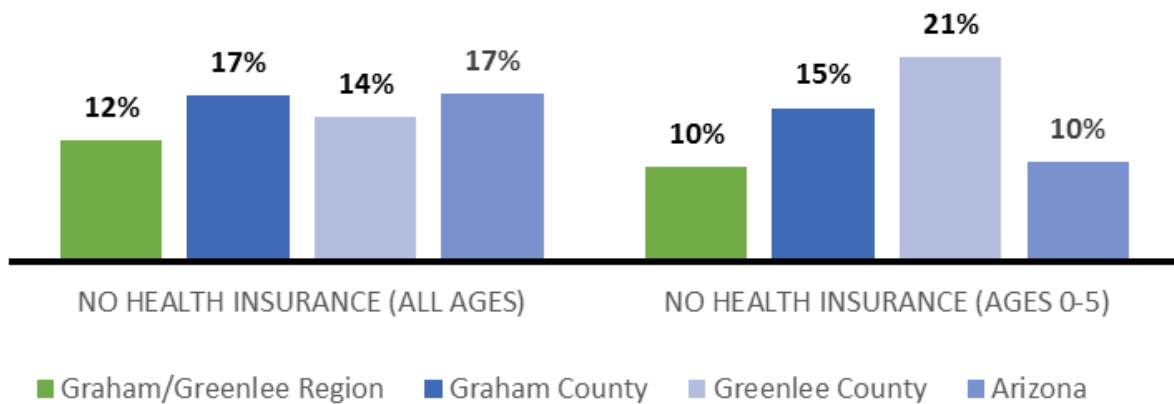
Figure 14. Regular visits with the same dental provider (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

Health Insurance

Figure 15. Estimated percent of population without health insurance, 2009-2013 five-year estimate



Source: U.S. Census Bureau (2014). 2009-2013 American Community Survey 5 Year Estimates, Table B27001. Retrieved from: <http://factfinder.census.gov>

Table 30. Number of children (all ages) enrolled in KidsCare, 2005-2014

	JAN 2005	JAN 2006	JAN 2007	JAN 2008	JAN 2009	JAN 2010	JAN 2011	JAN 2012	JAN 2013	JAN 2014
Graham County	271	289	293	257	228	212	102	64	164	226
Greenlee County	33	39	38	35	41	35	22	10	26	24
Arizona	48,075	55,996	58,612	63,527	61,198	45,809	22,943	12,837	34,127	42,686

Source: Arizona Health Care Cost Containment System (2014). KidsCare Population Reports

Note: Regional data were not available for this indicator.

Immunizations

Table 31. Immunizations for children in child care, school year 2014-2015

	NUMBER OF STUDENTS	DTAP (DIPHTHERIA, TETANUS, PERTUSSIS), 4 OR MORE DOSES	POLIO, 3 OR MORE DOSES	MMR (MEASLES, MUMPS, RUBELLA), 1 OR MORE DOSES	RELIGIOUS BELIEFS EXEMPTIONS	MEDICAL EXEMPTIONS
Graham/ Greenlee Region	323	90%	95%	96%	2.8%	0.0%
Graham County	292	93%	96%	96%	3.4%	0.0%
Greenlee County	156	89%	96%	97%	1.3%	0.0%
Arizona	84,778	93%	95%	96%	3.6%	0.5%

Source: Arizona Department of Health Services (2015). [Regional immunization dataset]. Unpublished data. Arizona Department of Health Services (2015). Arizona childcare immunization coverage. Retrieved from: <http://azdhs.gov/preparedness/epidemiology-disease-control/immunization/index.php#reports-immunization-coverage>

Table 32. Immunizations for children in kindergarten, school year 2014-2015

	NUMBER OF STUDENTS	DTAP (DIPHTHERIA, TETANUS, PERTUSSIS), 4 OR MORE DOSES	POLIO, 3 OR MORE DOSES	MMR (MEASLES, MUMPS, RUBELLA), 1 OR MORE DOSES	PERSONAL BELIEFS EXEMPTIONS	MEDICAL EXEMPTIONS
Graham/ Greenlee Region	780	92%	93%	92%	3.7%	0.1%
Graham County	605	92%	93%	91%	3.8%	0.0%
Greenlee County	175	94%	93%	94%	3.4%	0.6%
Arizona	84,651	94%	95%	94%	4.6%	0.3%

Source: Arizona Department of Health Services (2015). [Regional immunization dataset]. Unpublished data. Arizona Department of Health Services (2015). Arizona kindergarten immunization coverage. Retrieved from: <http://azdhs.gov/preparedness/epidemiology-disease-control/immunization/index.php#reports-immunization-coverage>

Family Support and Literacy

Why it Matters

Parents and families have a crucial role in providing nurturing and stable relationships for optimal brain development during their child's first years.^{63,64,65} When children experience nurturing, responsive caregiving, they face better life prospects across a number of social, physical, academic and economic outcomes.^{66,67} Consequently, healthy development depends on positive relationships between children and their caregivers from an early age.⁶⁸ For parents of young children, reading aloud, singings songs, practicing nursery rhymes, and engaging in conversation primes children to reach their full potential. Such interactions not only support literacy skills, but also offer exposure to a range of ideas, including recognizing and naming emotions, an important socio-emotional skill. Parents and family are children's first teachers; the most rapid expansion in vocabulary happens between ages one and three.⁶⁹ In fact, literacy promotion is so central to a child's development that the American Academy of Pediatrics has recently focused on it as a key issue in primary pediatric care, aiming to make parents more aware of their important role in literacy.⁷⁰

Data on the amount and quality of the interaction parents typically have with their children can be useful to inform programs and policies to encourage positive engagement. Communities may employ many resources to support families in engaging with their children. Examples of these opportunities include: home visitation programs; "stay and play" programs featuring

⁶³ Evans, G. W., & Kim, P. (2013). Childhood poverty, chronic stress, self-regulation, and coping. *Child Development Perspectives*, 7(1), 43-48. Retrieved from <http://onlinelibrary.wiley.com/doi/10.1111/cdep.12013/abstract>

⁶⁴ Shonkoff, J. P., & Fisher, P. A. (2013). Rethinking evidence-based practice and two-generation programs to create the future of early childhood policy. *Development and Psychopathology*, 25, 1635- 1653. Retrieved from http://journals.cambridge.org/download.php?file=%2FDPP%2FDPP25_4pt2%2FS0954579413000813a.pdf&code=aeb62de3e0ea8214329e7a33e0a9df0e

⁶⁵ Shonkoff, J. P. & Phillips, D. A. (2000). *From Neurons to Neighborhoods: The Science of Early Childhood Development*. Washington, D.C.: National Academy Press. Retrieved from <http://www.nap.edu/read/9824/chapter/1>

⁶⁶ Magnuson, K. & Duncan, G. (2013). Parents in poverty (95-121) In Bornstein, M. *Handbook of Parenting: Biology and Ecology of Parenting Vol. 4: Social Conditions and Applied Parenting*. New Jersey: Lawrence Erlbaum.

⁶⁷ Center on the Developing Child at Harvard University. (2010). *The Foundations of Lifelong Health Are Built in Early Childhood*. Retrieved from <http://www.developingchild.harvard.edu>

⁶⁸ National Scientific Council on the Developing Child. (n.d.). Category: Working Papers. Retrieved from <http://developingchild.harvard.edu/resourcecategory/working-papers/>

⁶⁹ Read On Arizona. (n.d.). *As a parent what can I do at home to support early literacy?* Retrieved from <http://readonarizona.org/about-us/faq/>

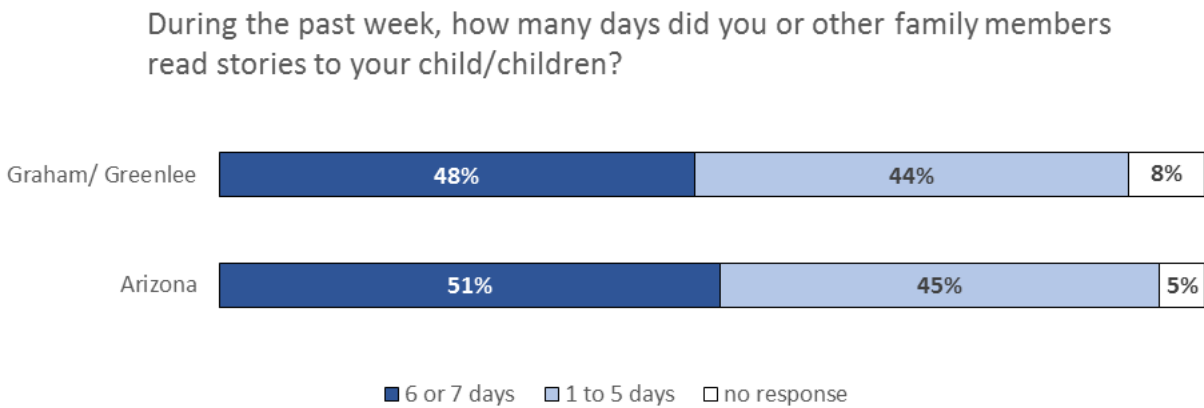
⁷⁰ American Academy of Pediatrics. (n.d.). *Pediatric Professional Resource: Evidence Supporting Early Literacy and Early Learning*. Retrieved from https://www.aap.org/en-us/Documents/booksbuildconnections_evidencesupportingearlyliteracyandearlylearning.pdf

developmentally appropriate activities for children and their parents; Read On Arizona, a program that promotes early literacy; and the national “Reach Out & Read” program, in which nearly 200 clinics and pediatric practices across the state seeing children for a well-child visit provide them with a book to take home.⁷¹

What the Data Tell Us

The First Things First Family and Community Survey is a phone-based survey designed to measure many critical areas of parents’ knowledge, skills, and behaviors related to their young children. In the Graham/Greenlee Region, 100 people responded to the 2012 First Things First Family and Community Survey. Among other topics, the 2012 survey collected data about parent and caregiver knowledge of children’s early development and their involvement in a variety of behaviors known to contribute positively to healthy development. Parents in the Graham/Greenlee Region were somewhat less likely to report reading to their children (48%), telling stories to their children (42%) and drawing with their child (45%) six or seven days a week compared to parents across the state (51%, 51% and 47% respectively) (see Figure 16, Figure 17, and Figure 18). Parents in the Graham/Greenlee Region showed a slightly better understanding that brain development can be impacted prenatally or right from birth than did respondents across the state as a whole (see Figure 19).

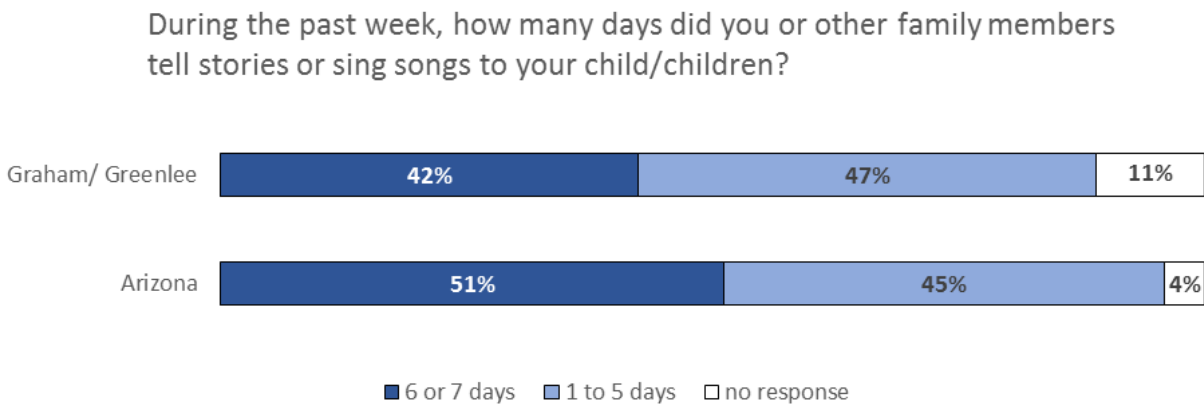
Figure 16. Reading stories to young children (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

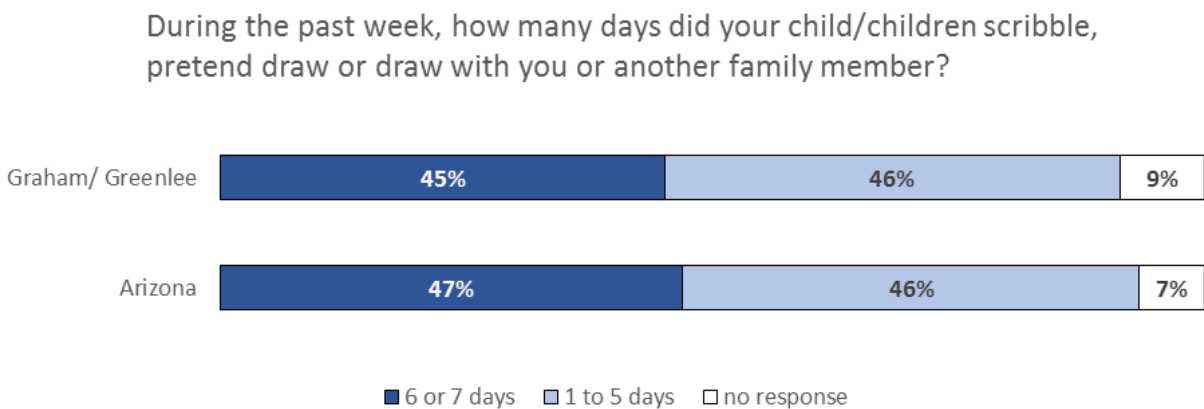
⁷¹ Reach Out and Read. (n.d.). *Programs Near You*. Retrieved from <http://www.reachoutandread.org/resource-center/find-a-program/>

Figure 17. Telling stories or singing songs to young children (Family and Community Survey, 2012)



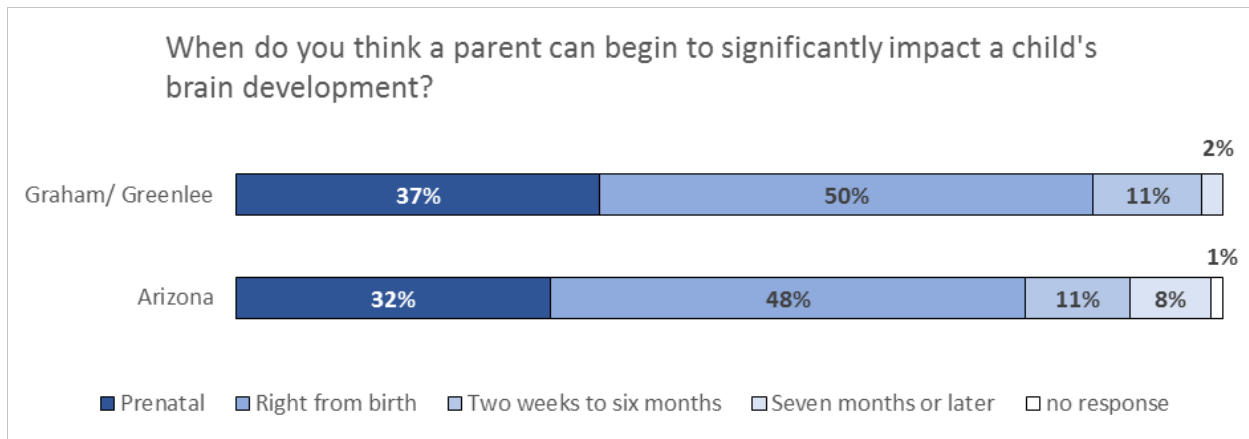
Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

Figure 18. Drawing and scribbling with young children (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

Figure 19. Understanding of prenatal brain development (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

Communication, Public Information and Awareness

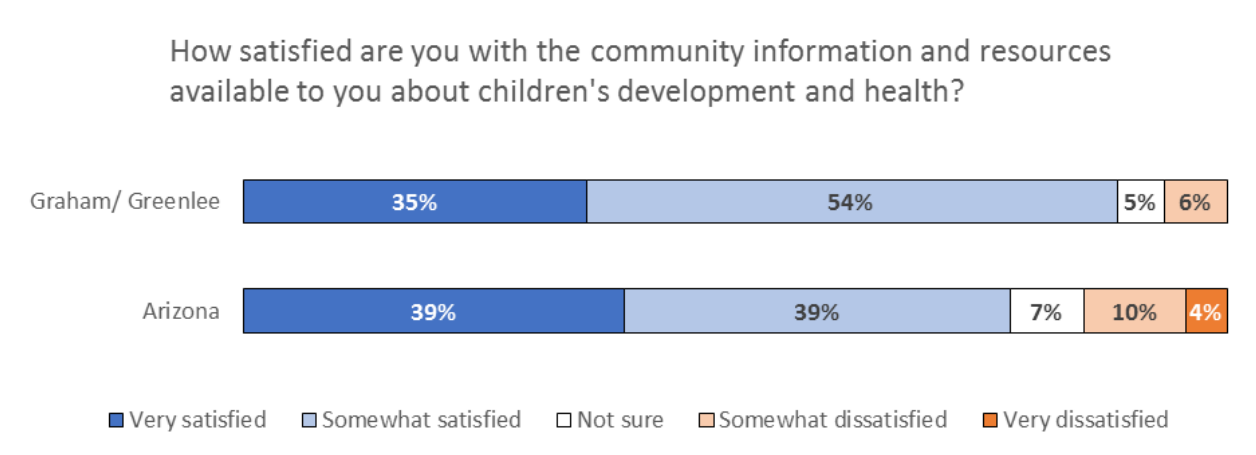
Why it Matters

To create a strong, comprehensive, and sustainable early childhood system, communities need an awareness of the importance of the first five years in a child’s life, and a commitment to align priorities and resources to programs and policies affecting these first years. Supporting public awareness by providing accessible information and resources on early childhood development and health, and educating community members about the benefits of committing resources to early childhood, are key to supporting and growing this system. Assessing the reach of these educational and informational efforts in First Things First regions across the state can help early childhood leadership and stakeholders refine, expand or re-direct these efforts.

What the Data Tell Us

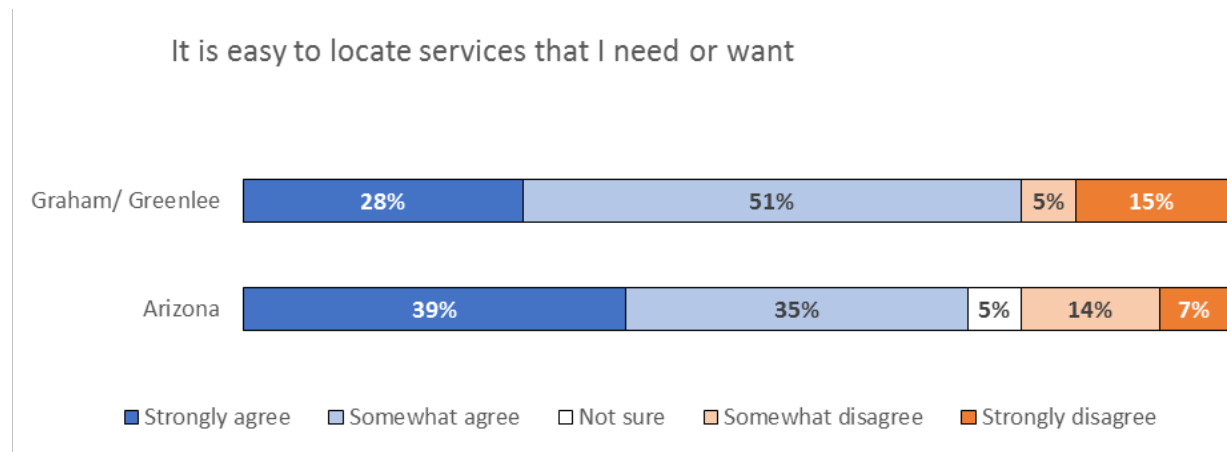
In addition to measuring parent knowledge, skills, and behaviors related to their young children, the 2012 First Things First Family and Community Survey collected data on parents’ perceptions regarding resources available to young children and their families across Arizona. Results from the survey demonstrated that residents in the Graham/Greenlee Region had similar levels of satisfaction with available information and resources, and agreement with ease of locating services, compared to the state. While 89 percent of Graham/Greenlee Region respondents indicated some level of satisfaction, only about one-third (35%) indicated they were “very satisfied” with “the community information and resources available to them about their children’s development and health” (see Figure 20). Seventy-nine percent of Graham/Greenlee Region respondents “strongly agreed” or “somewhat agreed” that “it is easy to locate services that I want or need,” compared to 74 percent of respondents across the state (see Figure 21).

Figure 20. Satisfaction with information and resources (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

Figure 21. Ease of locating needed services (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

Systems Coordination among Early Childhood Programs and Services

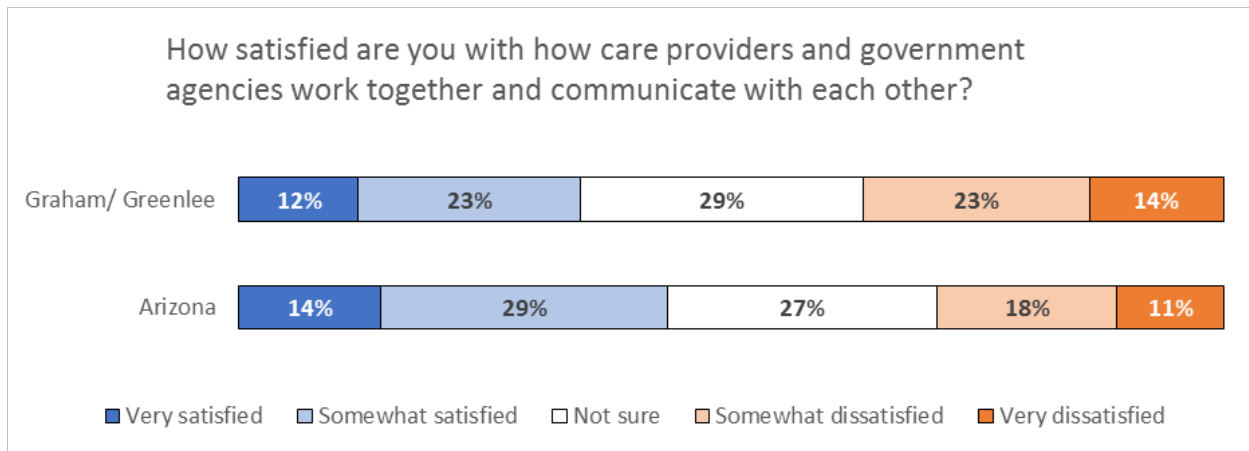
Why it Matters

Through system-building, First Things First is focused on developing approaches to connect various components of the early childhood system. This is done in an effort to create a more holistic system that operates to promote shared results for children and families. Agencies that work together and achieve a high level of coordination and collaboration are often easier for families to access and the services provided are more responsive to the needs of the families. Coordination efforts may also result in an increased capacity to deliver services because of the work that organizations do to identify and address gaps in the service delivery continuum. By supporting a variety of coordination efforts, First Things First aims to create a high quality, interconnected, and comprehensive early childhood service delivery system that is timely, culturally responsive, family driven, community based, and directed toward enhancing children's overall development. Determining how these efforts are impacting regions and the families within them can help inform service, program and policy decisions that will benefit families and young children across the state.

What the Data Tell Us

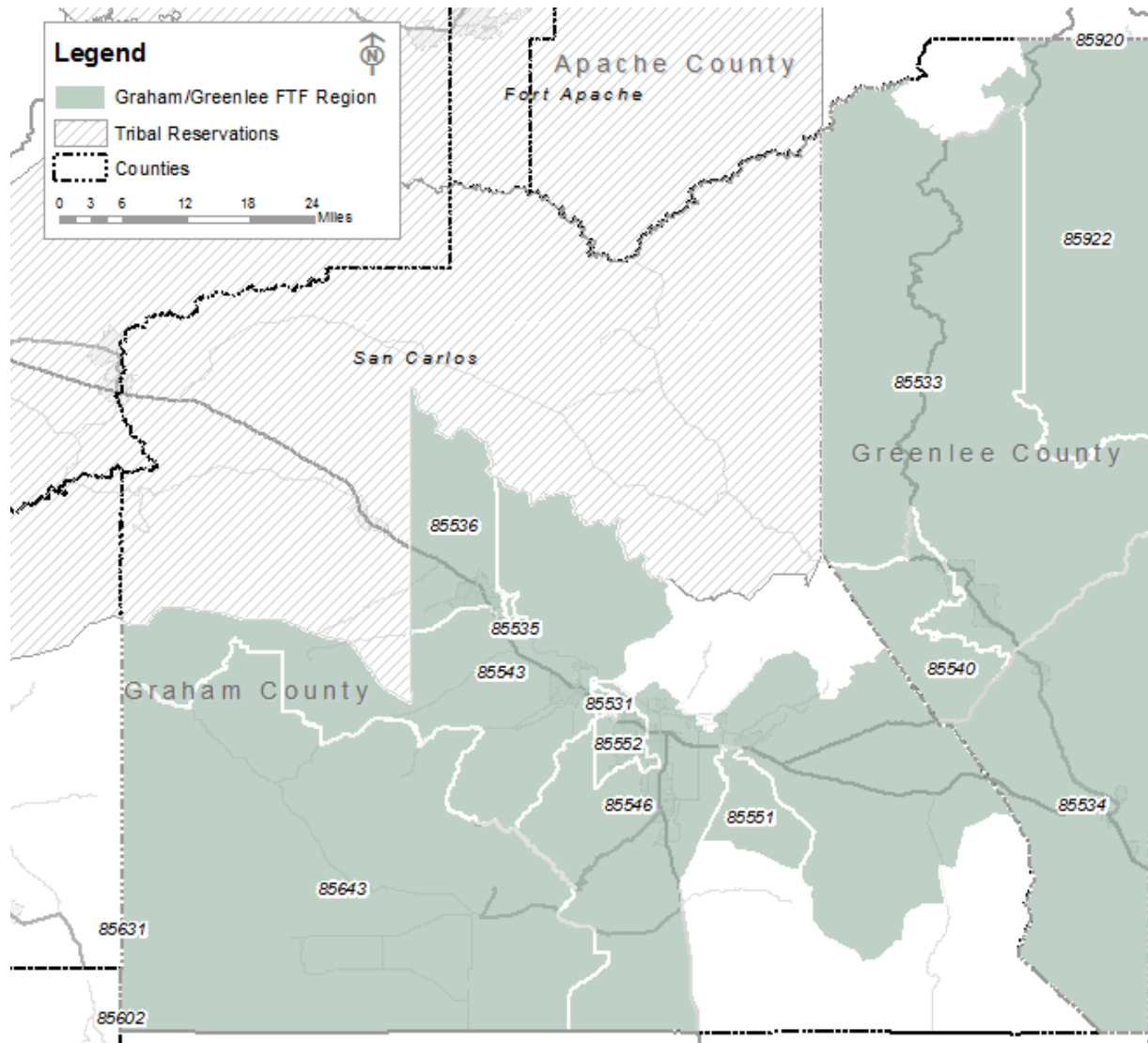
The 2012 First Things First Family and Community Survey collected data on parents' perceptions regarding how well agencies that serve young children and their families coordinate and collaborate. One item from the survey addresses the issue of perceived early childhood system coordination. Respondents in the region were more likely to indicate dissatisfaction (37%) than satisfaction (35%) with how care providers and government agencies work together and communicate (see Figure 22). The reverse was true across the state where respondents were more likely to indicate satisfaction (43%) than dissatisfaction (29%) with the level of cooperation and communication among providers and agencies.

Figure 22. Satisfaction with coordination and communication (Family and Community Survey, 2012)



Source: First Things First (2014). [2012 Family and Community Survey data]. Unpublished data.

Appendix 1: Map of zip codes of the Graham/Greenlee Region



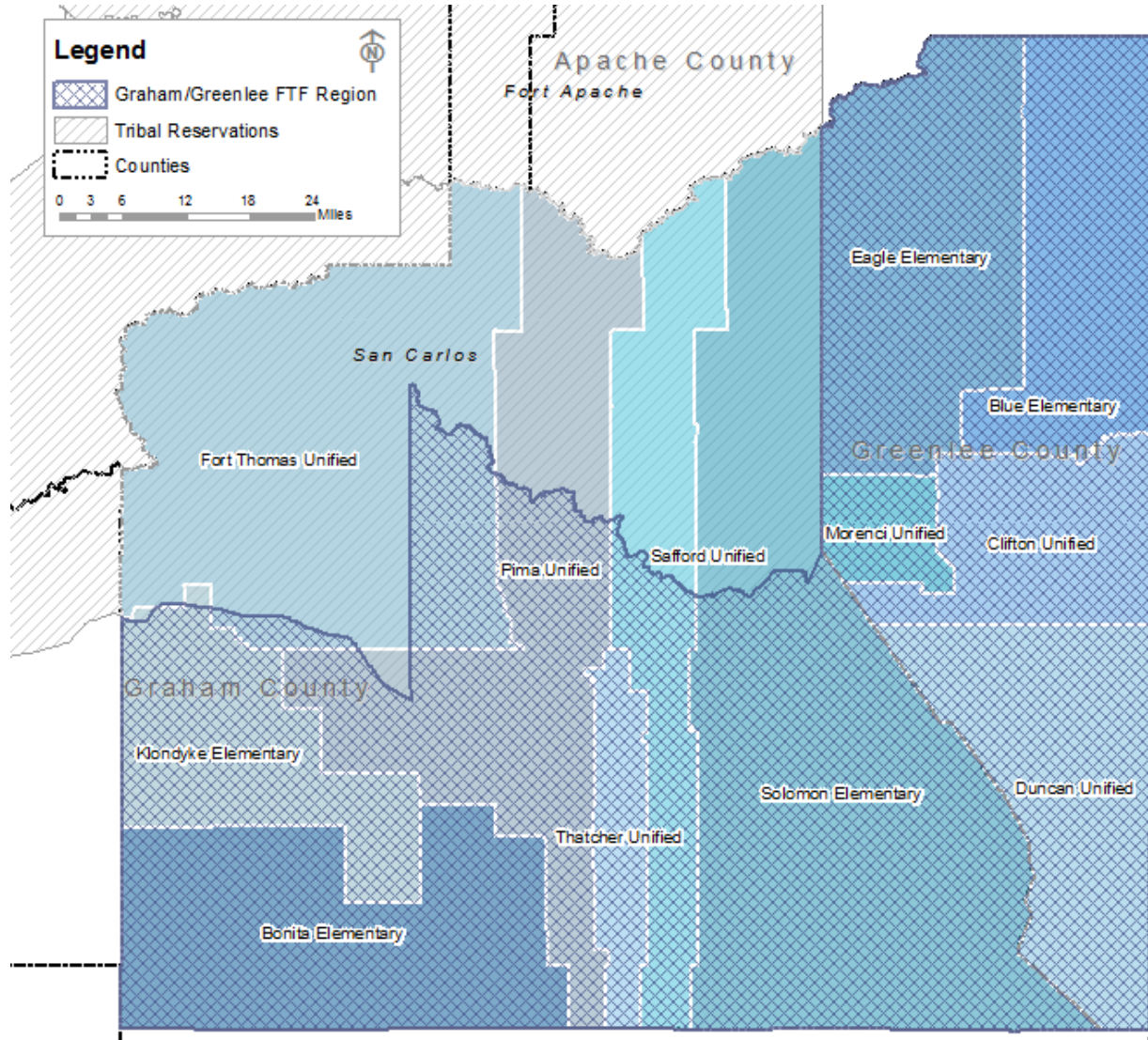
Source: U.S. Census Bureau (2010). TIGER/Line Shapefiles: ZCTAs, Counties, American Indian/Alaska Native Homelands. Retrieved from <http://www.census.gov/geo/maps-data/data/tiger-line.html>

Appendix 2: Zip codes of the Graham/Greenlee Region

ZIP CODE TABULATION AREA (ZCTA)	TOTAL POPULATION	POPULATION (AGES 0-5)	TOTAL NUMBER OF HOUSEHOLDS	HOUSEHOLDS WITH ONE OR MORE CHILDREN (AGES 0-5)	PERCENT OF ZCTA'S TOTAL POPULATION LIVING IN THE GRAHAM/GREENLEE REGION	THIS ZCTA IS SHARED WITH
Graham/Greenlee Region	40,877	3,903	13,249	2,600		
85531	623	75	185	44	100%	
85533	2,934	273	1,111	195	99.7%	San Carlos Apache
85534	2,588	191	1,023	130	100%	
85535	21	0	6	0	100%	
85536	408	32	170	22	100%	
85540	2,874	330	1,033	241	100%	
85543	3,821	427	1,236	277	99.97%	San Carlos Apache
85546	19,677	1,874	6,105	1,245	100%	
85551	405	38	142	26	100%	
85552	6,218	652	2,046	411	100%	
85643	1,267	11	171	9	13%	Cochise
85922	41	0	21	0	100%	

Source: U.S. Census Bureau (2010). 2010 Decennial Census, Summary File 1, Tables P1, P14, P20.

Appendix 3: Map of Elementary and Unified School Districts in the Graham/Greenlee Region



Source: U.S. Census Bureau (2015). TIGER/Line Shapefiles: Elementary School Districts, Unified School Districts. Retrieved from <http://www.census.gov/geo/maps-data/data/tiger-line.html>

Appendix 4: Data Sources

Arizona Department of Administration, Office of Employment and Population Statistics (December 2012): “2012-2050 State and county population projections.” Retrieved from <http://www.workforce.az.gov/population-projections.aspx>

Arizona Department of Administration, Office of Employment and Population Statistics (2014). Local area unemployment statistics (LAUS). Retrieved from <https://laborstats.az.gov/local-area-unemployment-statistics>

Arizona Department of Economic Security (2015). Child Care Market Rate Survey 2014. Data received from the First Things First State Agency Data Request

Arizona Department of Economic Security (2015). [Attendance data set]. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Economic Security (2015). [AzEIP Data]. Unpublished raw data received through the First Things First State Agency Data Request

Arizona Department of Economic Security (2015). [DDD Data]. Unpublished raw data received through the First Things First State Agency Data Request

Arizona Department of Economic Security (2015). [Drop-Out and Graduation data set]. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Economic Security (2015). [Homeless data set]. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Economic Security (2015). [SNAP data set]. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Economic Security (2015). [TANF data set]. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Education (2014). AIMS and AIMS A 2014. Retrieved from <http://www.azed.gov/research-evaluation/aims-assessment-results/>

Arizona Department of Education (2015). Percentage of children approved for free or reduced-price lunches, July 2015. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Health Services (2015). [Immunizations Dataset]. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Health Services, Bureau of Public Health Statistics (2015). [Vital Statistics Dataset]. Unpublished raw data received from the First Things First State Agency Data Request

Arizona Department of Health Services, Office of Injury Prevention (2015). [Injuries Dataset]. Data received from the First Things First State Agency Data Request

Arizona Health Care Cost Containment System (2014). KidsCare Enrollment by County. Retrieved from <http://www.azahcccs.gov/reporting/Downloads/KidsCareEnrollment/2014/Feb/KidsCareEnrollmentbyCounty.pdf>

First Things First (2014). [2012 Family and Community Survey data]. Unpublished data received from First Things First

U.S. Census Bureau (2010). 2010 Decennial Census, Tables P1, P11, P12A, P12B, P12C, P12D, P12E, P12F, P12G, P12H, P14, P20, P32, P41. Retrieved from <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>

U.S. Census Bureau (2010). 2010 Tiger/Line Shapefiles prepared by the U.S. Census. Retrieved from <http://www.census.gov/geo/maps-data/data/tiger-line.html>

U.S. Census Bureau (2014). American Community Survey 5-Year Estimates, 2009-2013, Table B05009, Table B10002, B14003, B15002, B16001, B16002, B17001, B17002, B19126, B23008, B25002, B25106. Retrieved from <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>

U.S. Census Bureau (2015). 2015 Tiger/Line Shapefiles prepared by the U.S. Census. Retrieved from <http://www.census.gov/geo/maps-data/data/tiger-line.html>