

MAPPING THE SOCIAL ECOLOGY OF EARLY CHILDHOOD IN NEW MEXICO

PRELIMINARY MAPS of SELECTED EARLY CHILDHOOD INDICATORS at the COUNTY AND SCHOOL DISTRICT LEVEL **REVISED**

SPONSORED BY

THE NEW MEXICO EARLY LEARNING ADVISORY COUNCIL

WITH THE PARTICIPATION OF

Early Childhood Services Division, NM Children, Youth and Families Department

Center for Education Policy Research, University of New Mexico

*Office of Community Assessment, Planning and Evaluation of Region 3, Public Health
Division, NM Department of Health.*

New Mexico Community Data Collaborative

****UPDATED AUGUST 8, 2011****

Thomas N. Scharmen, MA, MPH, Epidemiologist

Kathryn Chinn, BS

Regions 1 & 3, Office of Community Assessment, Planning and Evaluation

Public Health Division, New Mexico Department of Health

North Valley Public Health Office

7704-A 2nd St, NW Albuquerque, NM 87107

Telephone: 897-5700 ext 126; Fax: 897-1010

E-mail: thomas.scharmen@state.nm.us

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INTRODUCTION - This collection includes some of the first mapping work of a collaborative project between multiple analysts and data sources, supported by the New Mexico Early Learning Advisory Council.

We hope to provide needed support to New Mexico's energetic early childhood movement, and assist them to better understand the influence of **place** (*where* our children live and grow) on the health and development of our most important resource.

Though most of the maps are at the county or school district level, the eventual goal is to map these and many other indicators at the neighborhood or census tract level. See the "Child Care" and "Head Start" sections for mapping at this finer level. This 2nd version was updated August 8, 2011. Stay tuned for future updates.

The challenges of sharing data sets, building analytic capacity, improving data quality, and using web technology must be address in order to achieve the finer focus of neighborhood level assessment.

An ad hoc group – the NM Community Data Collaborative – has been meeting to address these challenges. The key participants responsible for this map collection include the Early Childhood Services Division of the NM Children, Youth and Families Department; the Center for Education Policy Research at the University of New Mexico; and the Office of Community Assessment, Planning and Evaluation of Region 3, Public Health Division, NM Department of Health.

This practical approach to comprehensive assessment at the neighborhood level holds great promise for engaging program experts, practitioners and policy advocates from New Mexico's tribes and communities in the ongoing tasks of setting priorities, writing competitive grant proposals, planning better programs, using funds more efficiently and creating wiser policies.

SELECTED **RISK** FACTORS RELATED TO EARLY CHILDHOOD

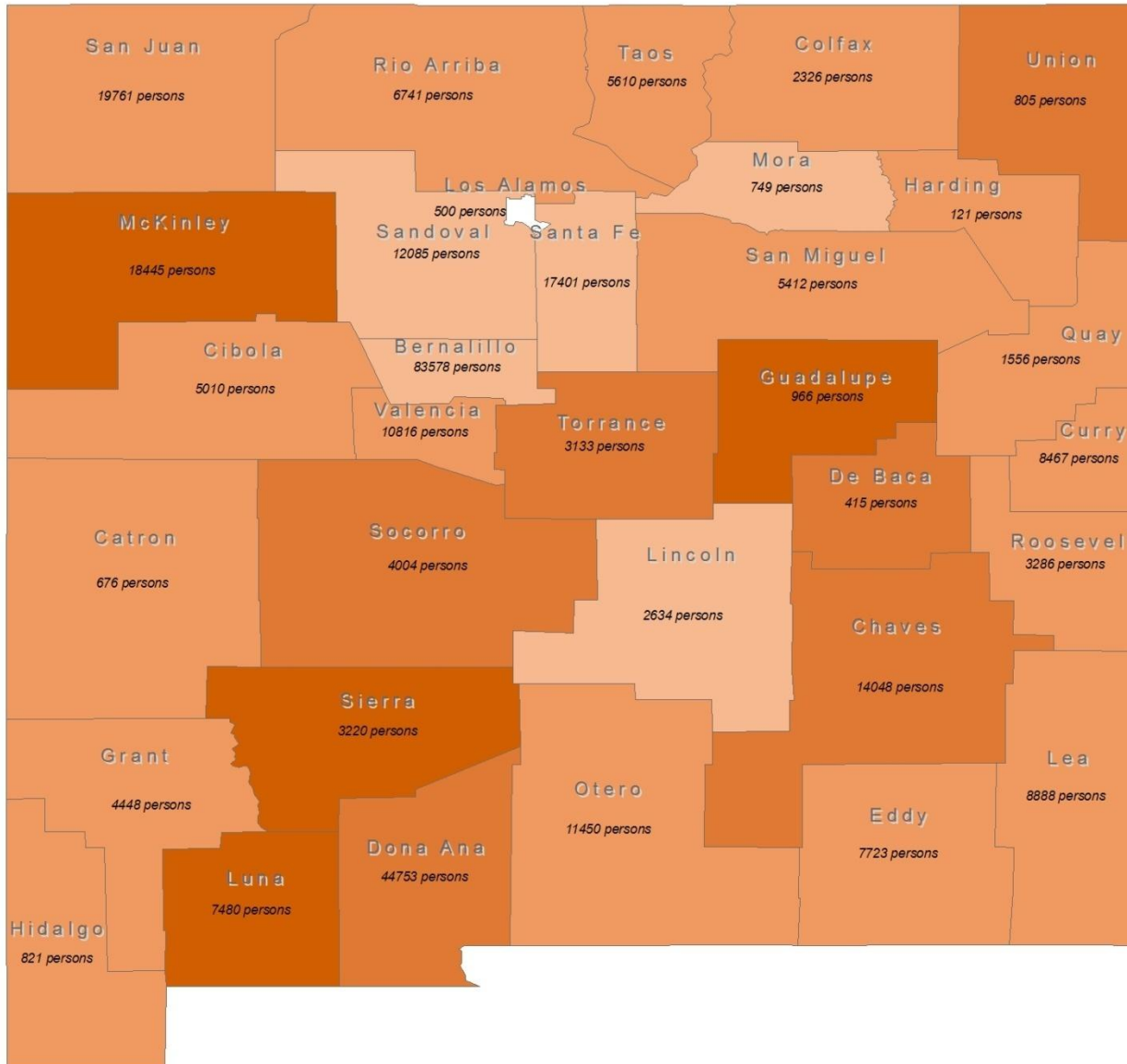
May 31, 2011

Poverty and Unemployment

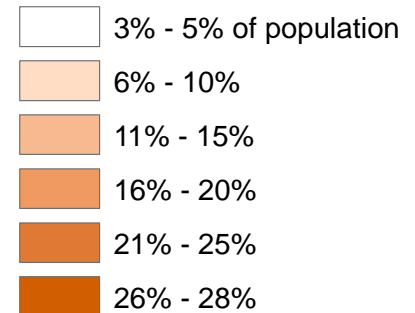
NM Counties
2009

NEW MEXICO COMMUNITY DATA COLLABORATIVE

How many people live below the Federal Poverty Level?



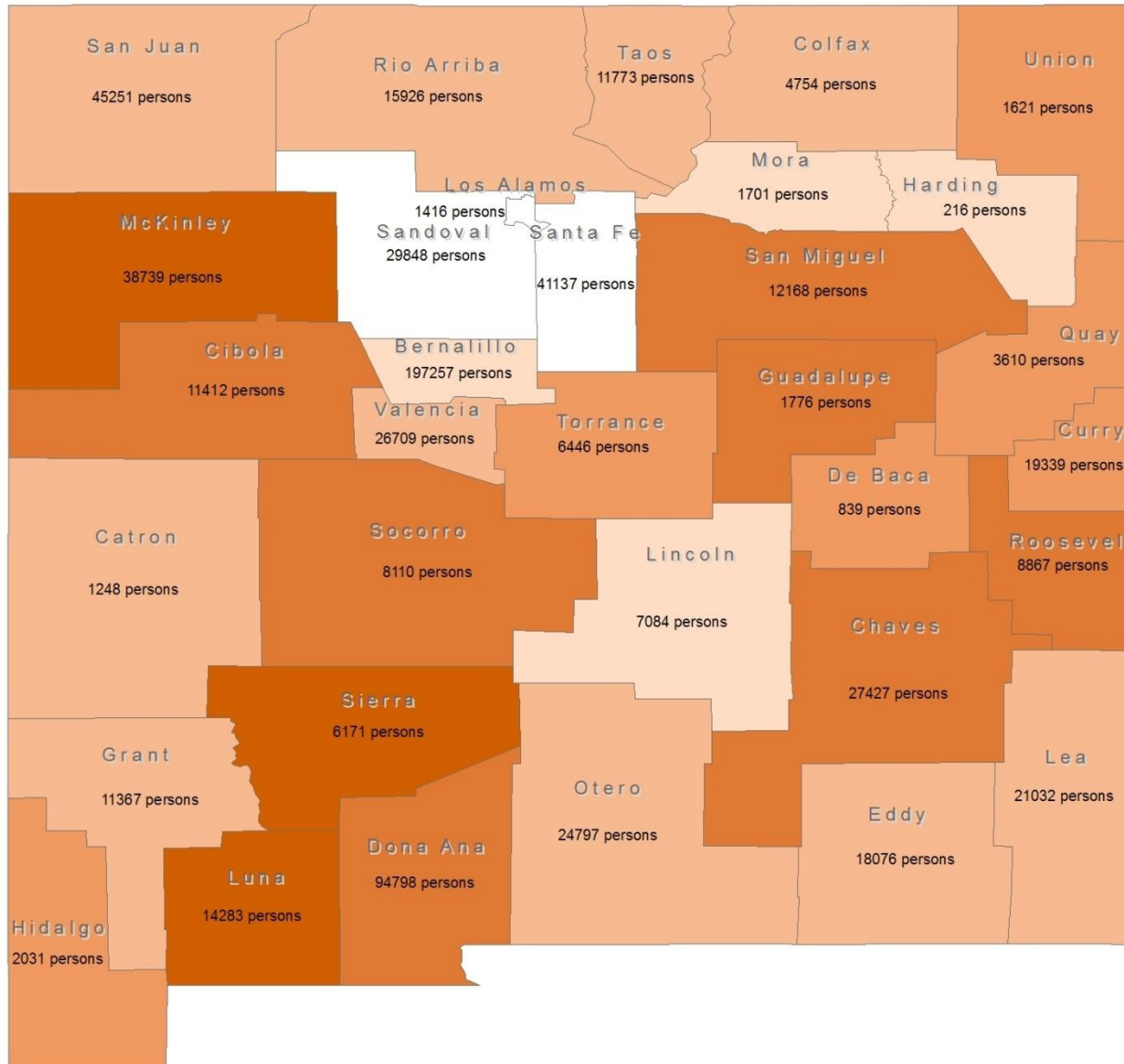
Poverty Rate, 2005-2009 Percent of Population with Income Below 100% of Federal Poverty Level



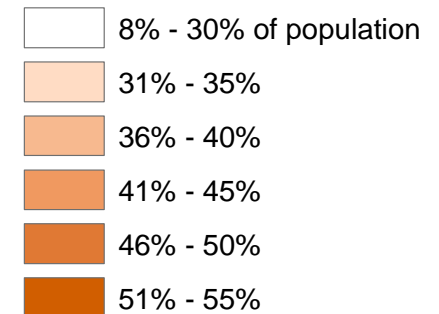
Source: American Community Survey

Over 317,000 people in New Mexico live within incomes below the Federal Poverty Level.

How many people live below 185% of the Federal Poverty Level?



Poverty Rate, 2005-2009 Percent of Population with Income Below 185% of Federal Poverty Level

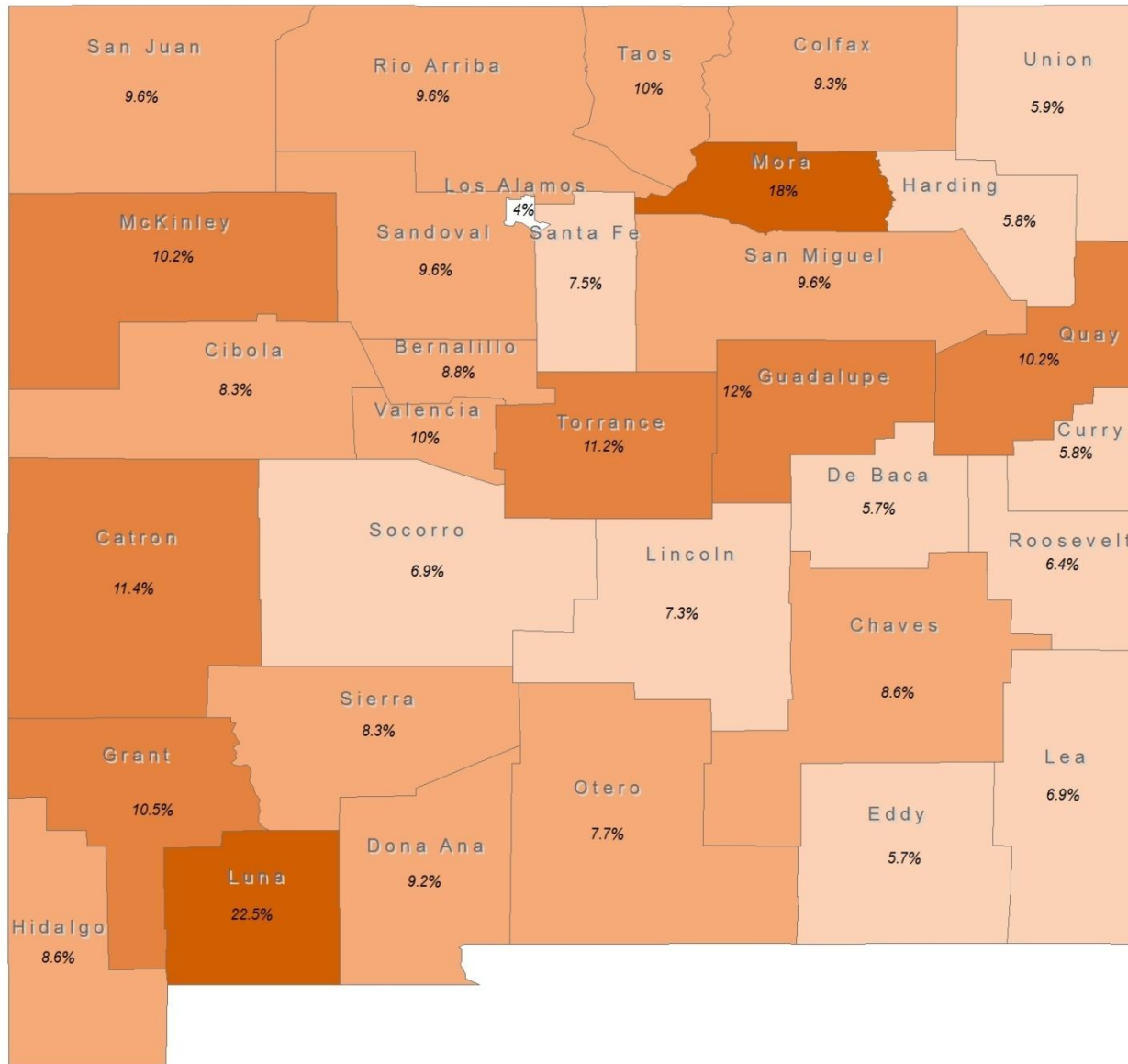


Source: American Community Survey

Over 717,000 people in New Mexico (~35%) live within incomes below 185% of the Federal Poverty Level.

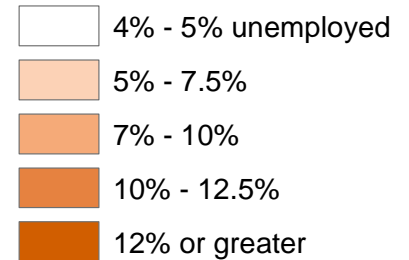
For families with children, this is the Medicaid eligibility level.

How many workers are unemployed in New Mexico?



Unemployment Rate January 2011

Percent of Workforce Unemployed



Source: NM Dept. of Workforce Solutions

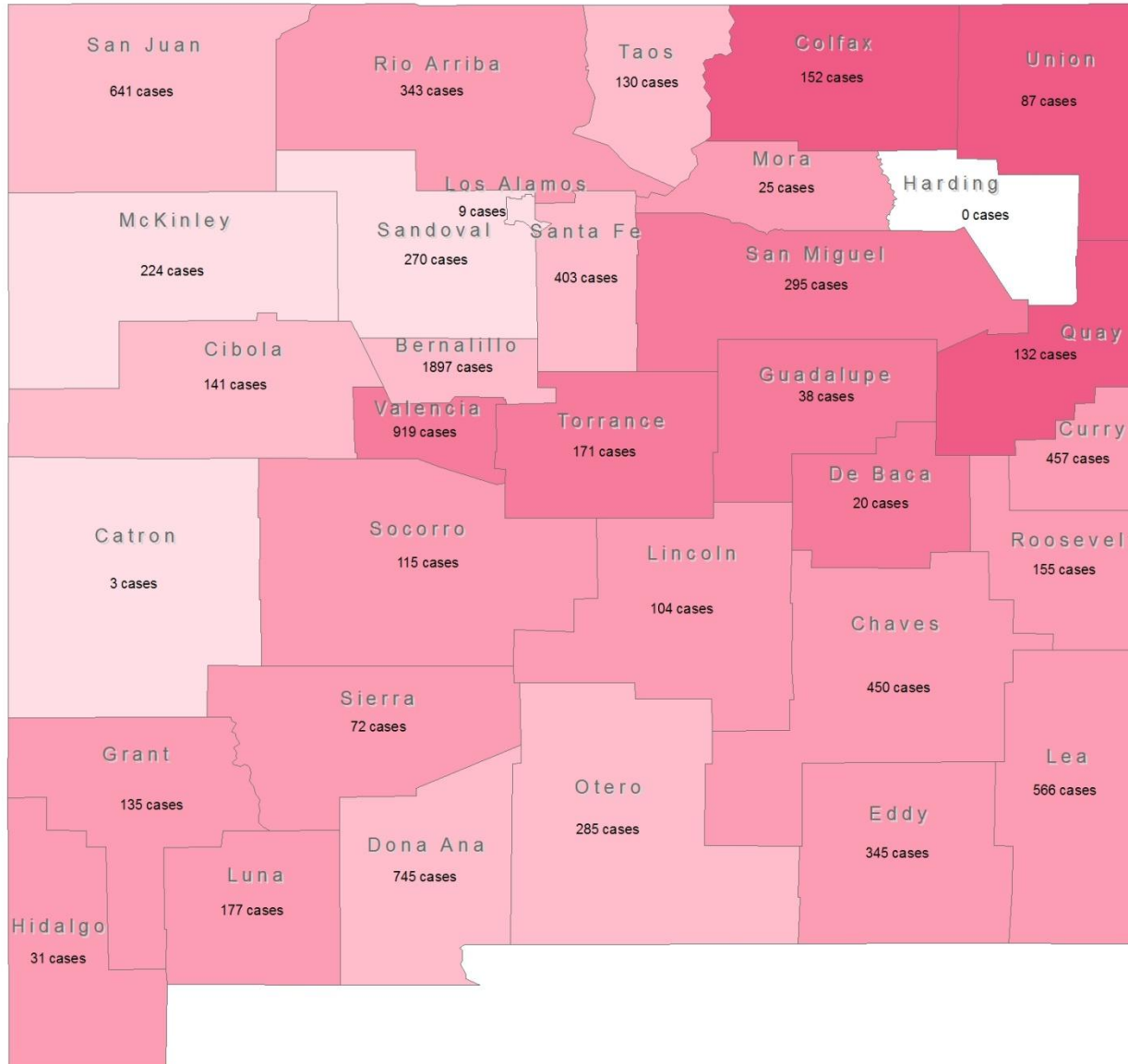
8.8% of New Mexico workers – over 83,000 people – were unemployed in January 2011.

CYFD Protective Services

NM Counties
2009 & 2010

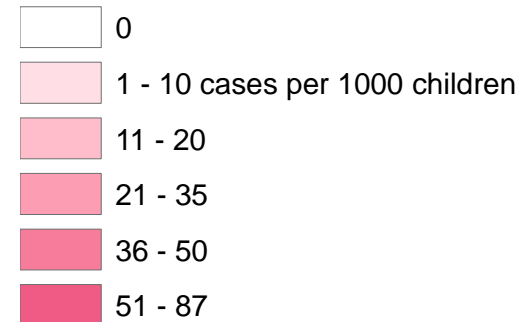
NEW MEXICO COMMUNITY DATA COLLABORATIVE

How often are children abused in New Mexico?



Rate of Child Abuse, 2010

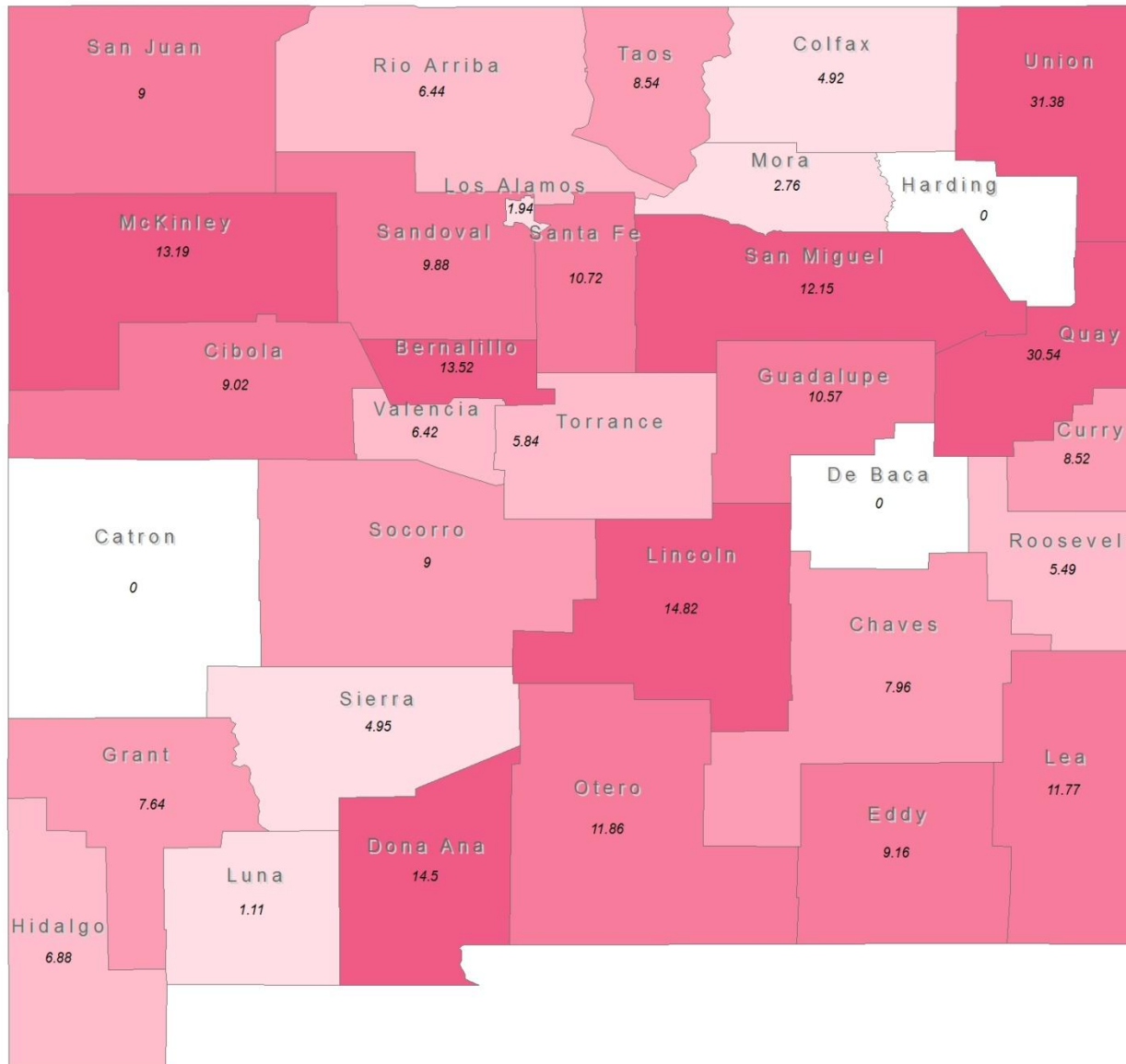
Number of Substantiated Cases



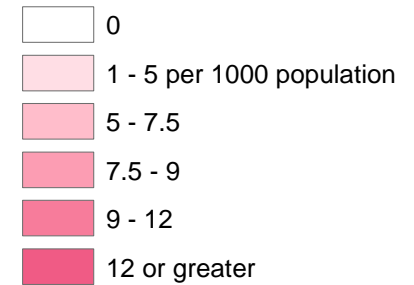
Source: CYFD Protective Services Factbook 2010

There were over 9500 substantiated allegations of child abuse and neglect in New Mexico in 2010.

How much domestic violence occurs in New Mexico?



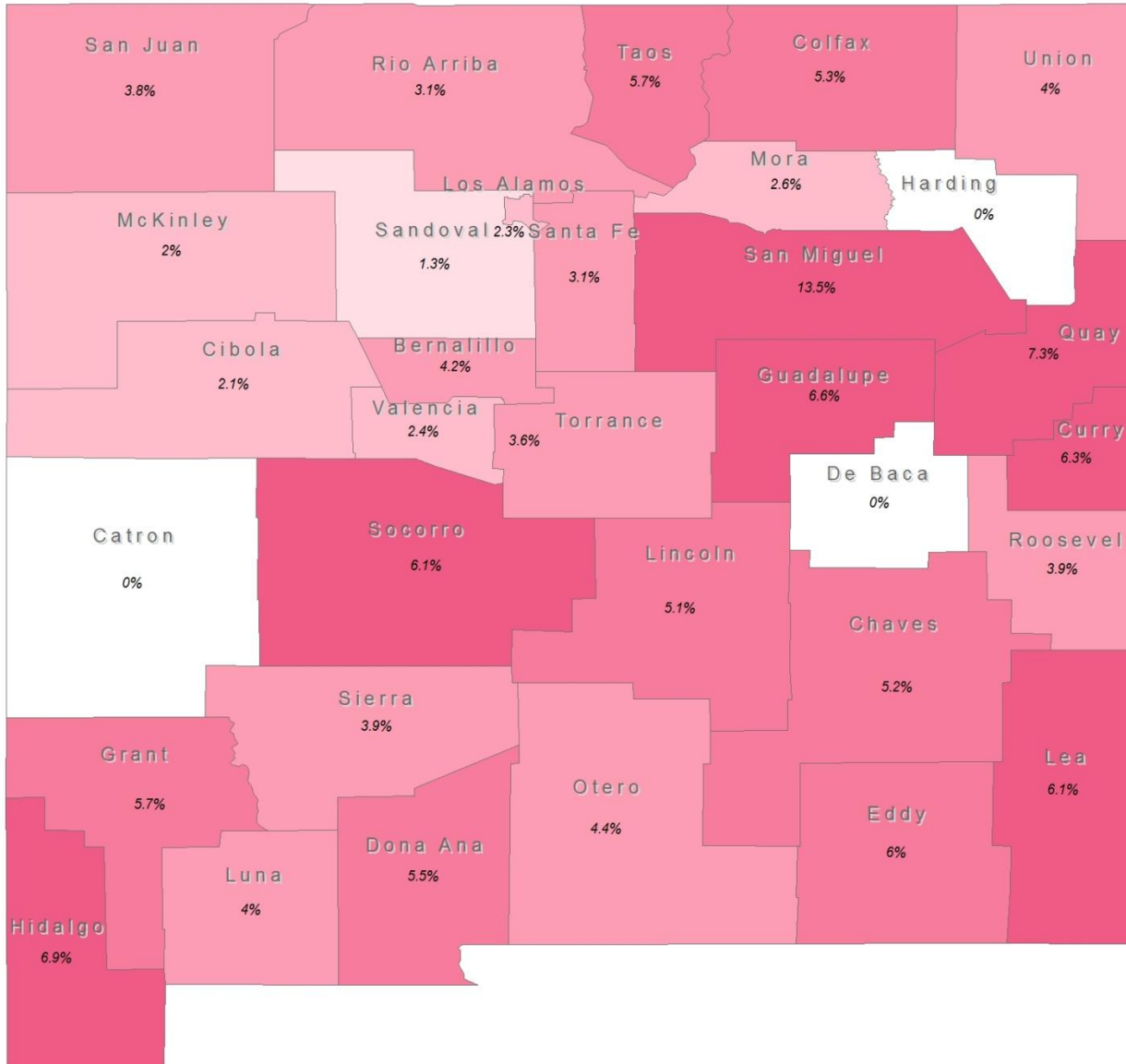
Rate of Domestic Violence, 2009



Source: CYFD

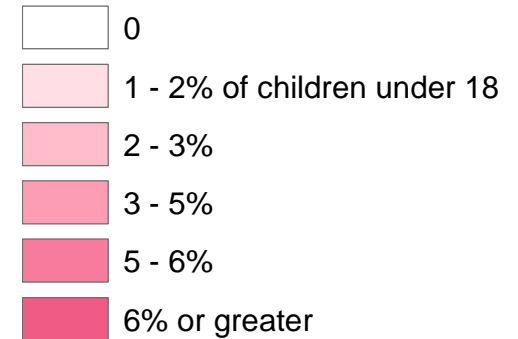
In 2008, there were over 16,000 domestic violence victims identified by law enforcement agencies in New Mexico. 72% were female.

How many children are arrested in New Mexico?



Juvenile Detention, 2009

Percent Under 18 Incarcerated



Source: CYFD

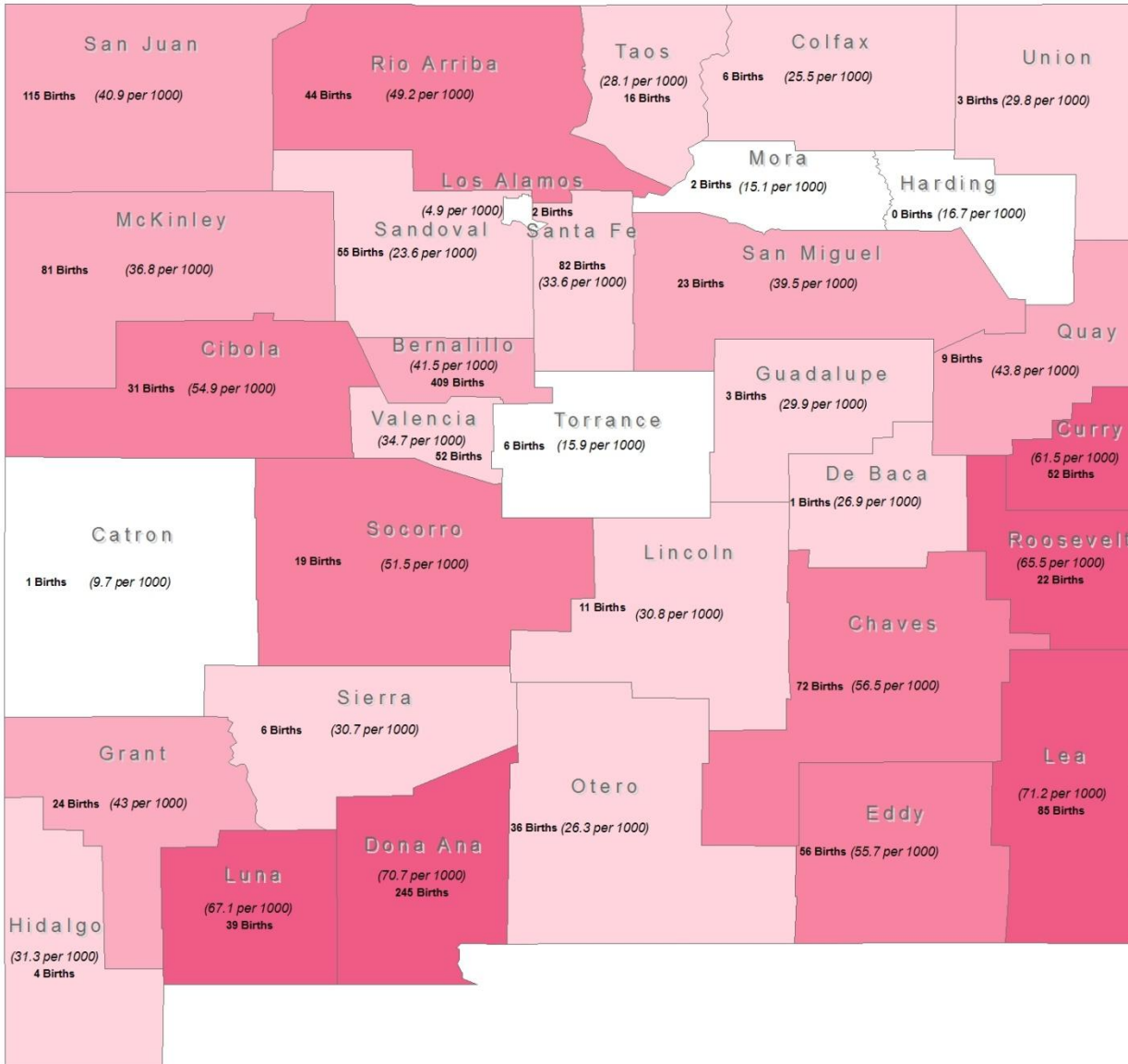
In 2009, nearly 22,000 children were arrested in New Mexico.

Adolescent and Low Birth Weight Births

NM Counties
2004-2008

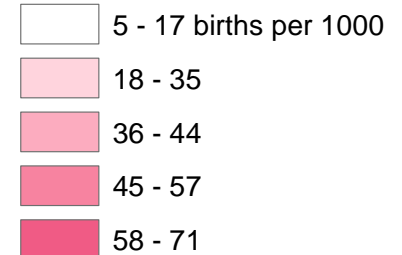
NEW MEXICO COMMUNITY DATA COLLABORATIVE

How many young teens are having babies?



Birth Rate, Girls Age 15-17 Annual Average 2004-2008

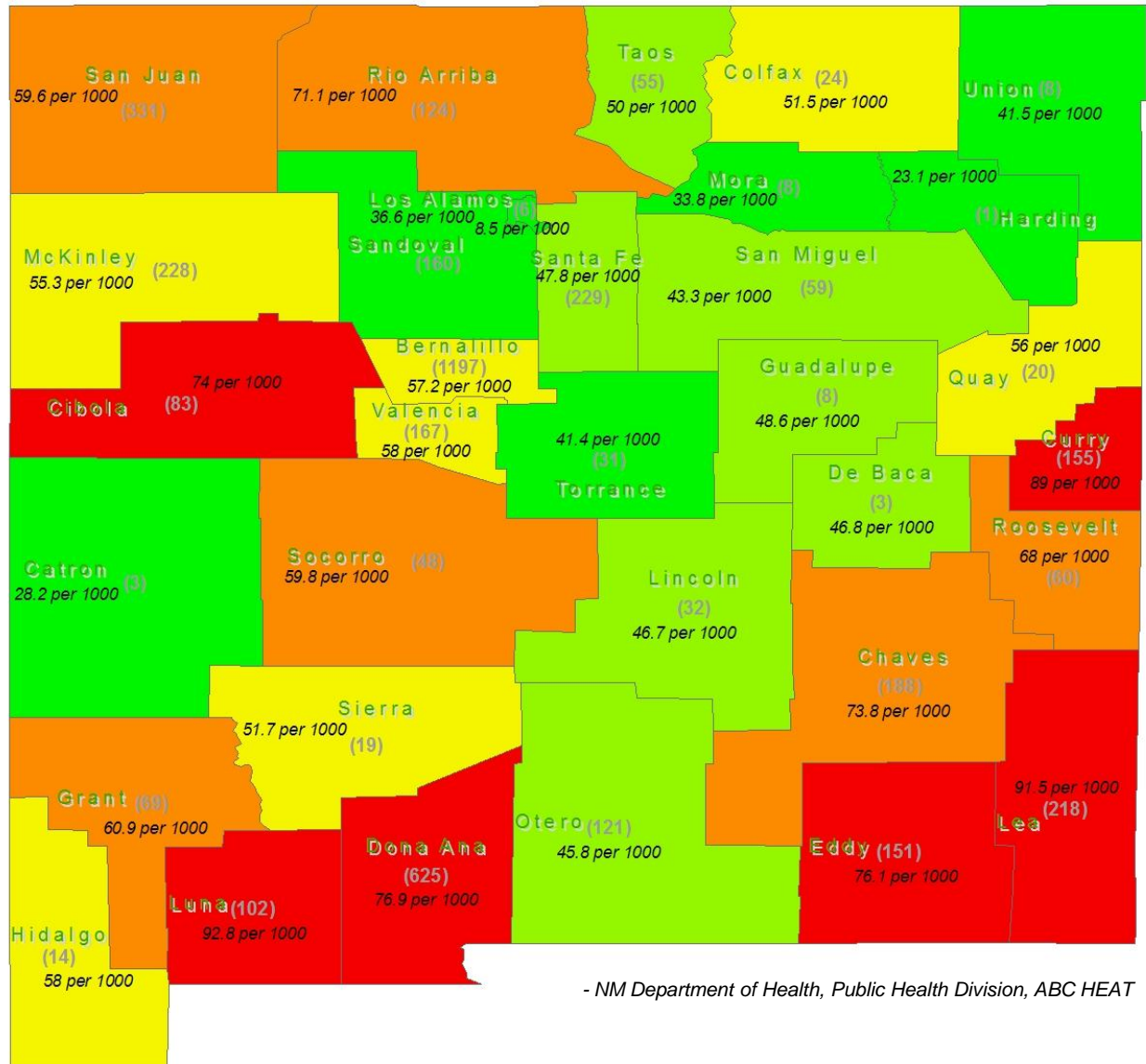
Births (Rate per 1000)



Source: NM DOH, NM IBIS

Statewide, the rate of births to girls ages 15 to 17 averaged 34.3 per 1000 during the period 2004-2008.

Where Are Children At Risk Based On Teen Births?



Teen Births, 2003-07
 Rate per 1000 women 15-19 yrs
 Number of Teens Giving Birth (4560/yr)

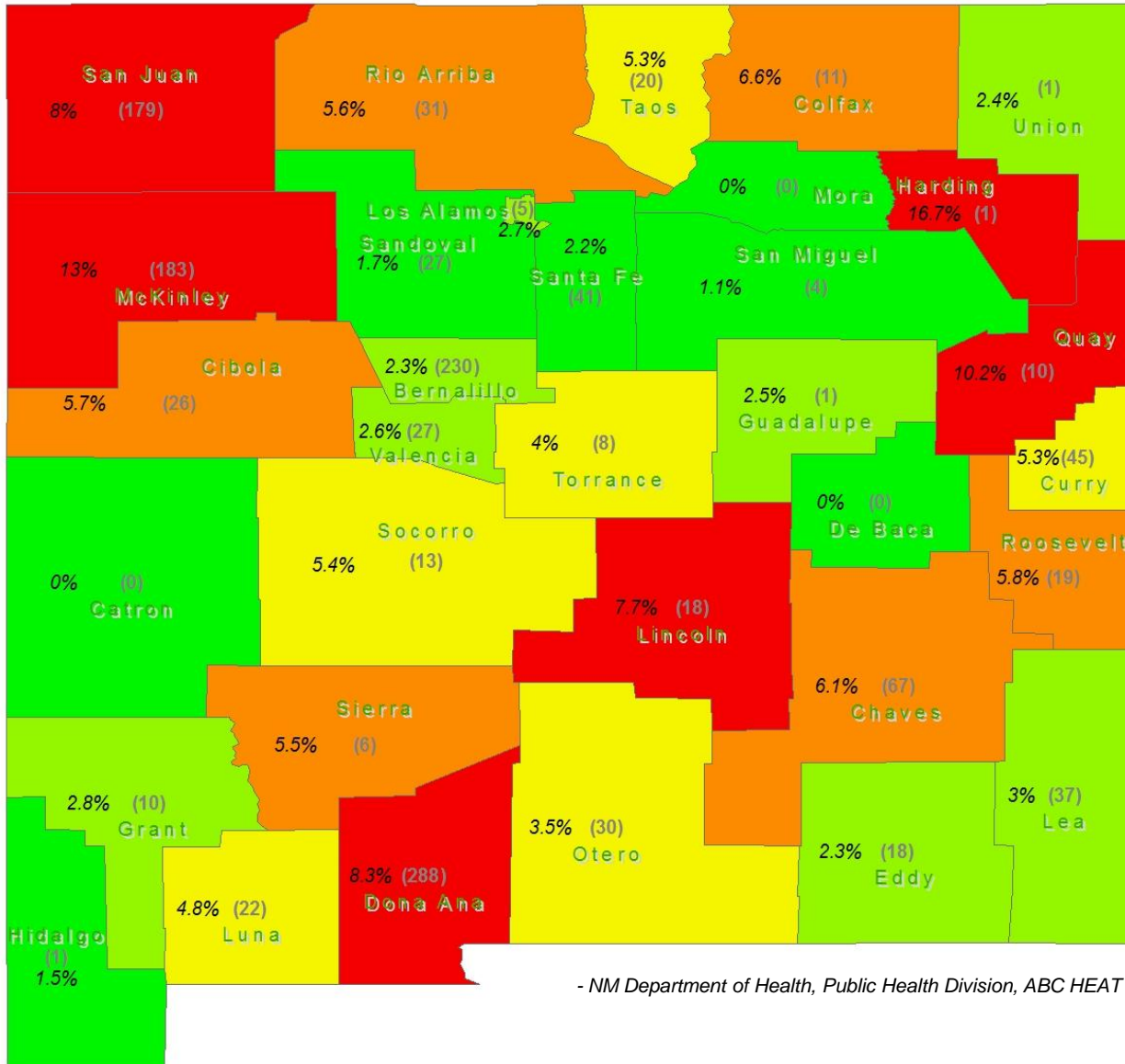
Source: NM DOH, Vital Records, NM IBIS

- Less than 41.5 per 1000
- 41.6 - 50.0
- 50.1 - 58.0
- 58.1 - 73.8
- 73.9 or greater

Statewide, the rate of births to girls ages 15 to 17 averaged 34.3 per 1000 during the period 2004-2008.

- NM Department of Health, Public Health Division, ABC HEAT

Where Are Children At Risk Based On Late Pre-Natal Care?



Prenatal Care Start in the Third Trimester, 2007

Percent of Women Giving Birth Number of Women Starting Care in 3rd Trimester (1379)

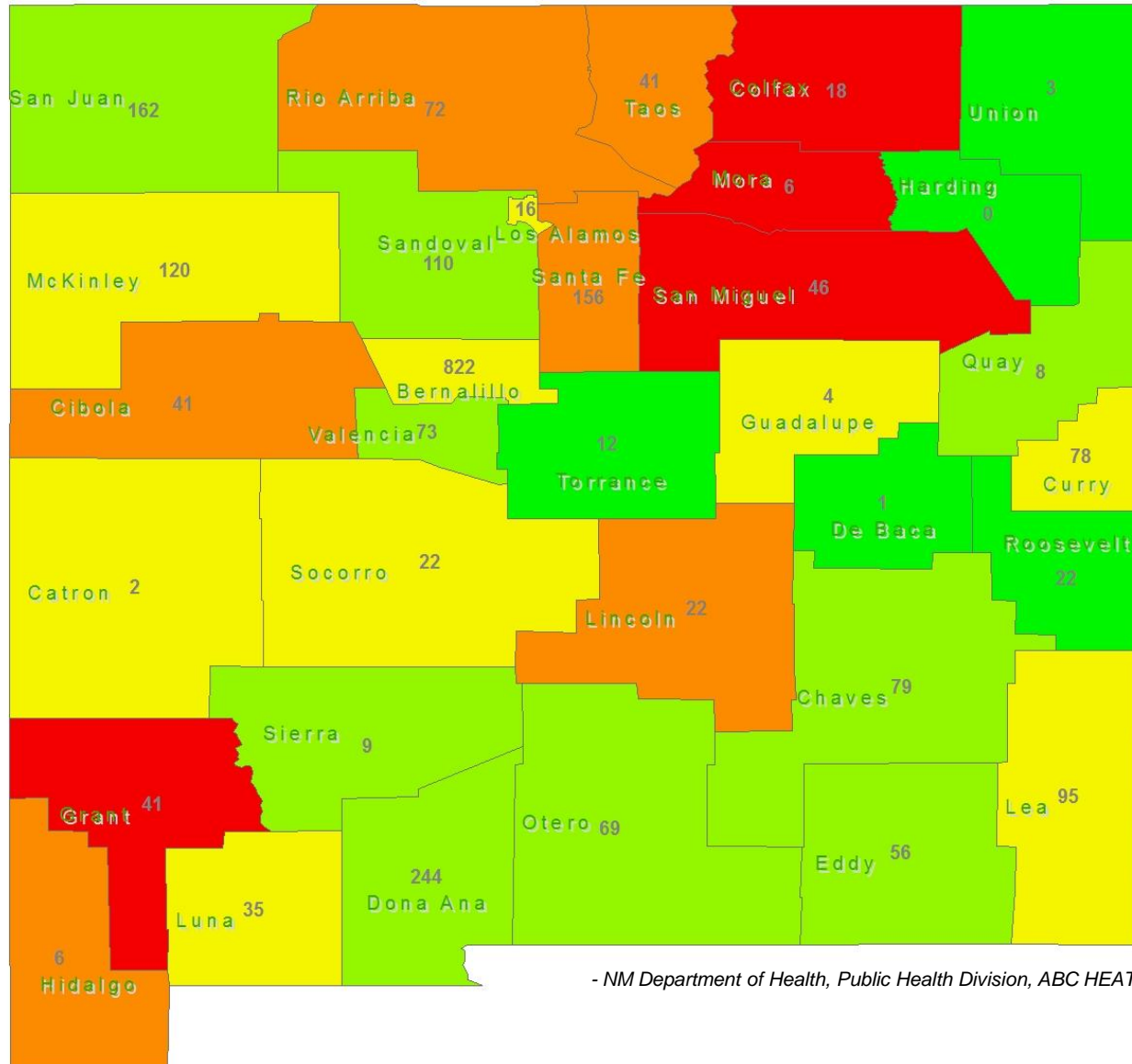
Source: NMDOH, Vital Records, NM IBIS

- Less than 2.2%
- 2.3% - 3%
- 3.1% - 5.4%
- 5.5% - 6.6%
- 6.7% or greater

Statewide, 4.5% of all women giving birth in 2007 did not receive pre-natal care until the last 3 months of their pregnancy. In some counties this rate was much higher.

- NM Department of Health, Public Health Division, ABC HEAT

Where Are Children At Risk Based On Low Birth Weights?



Low & Very Low Birth Weight Births, 2003-07

Percent of all Births

Average Annual Low & Very Low Birth Weight Births (2490/yr)

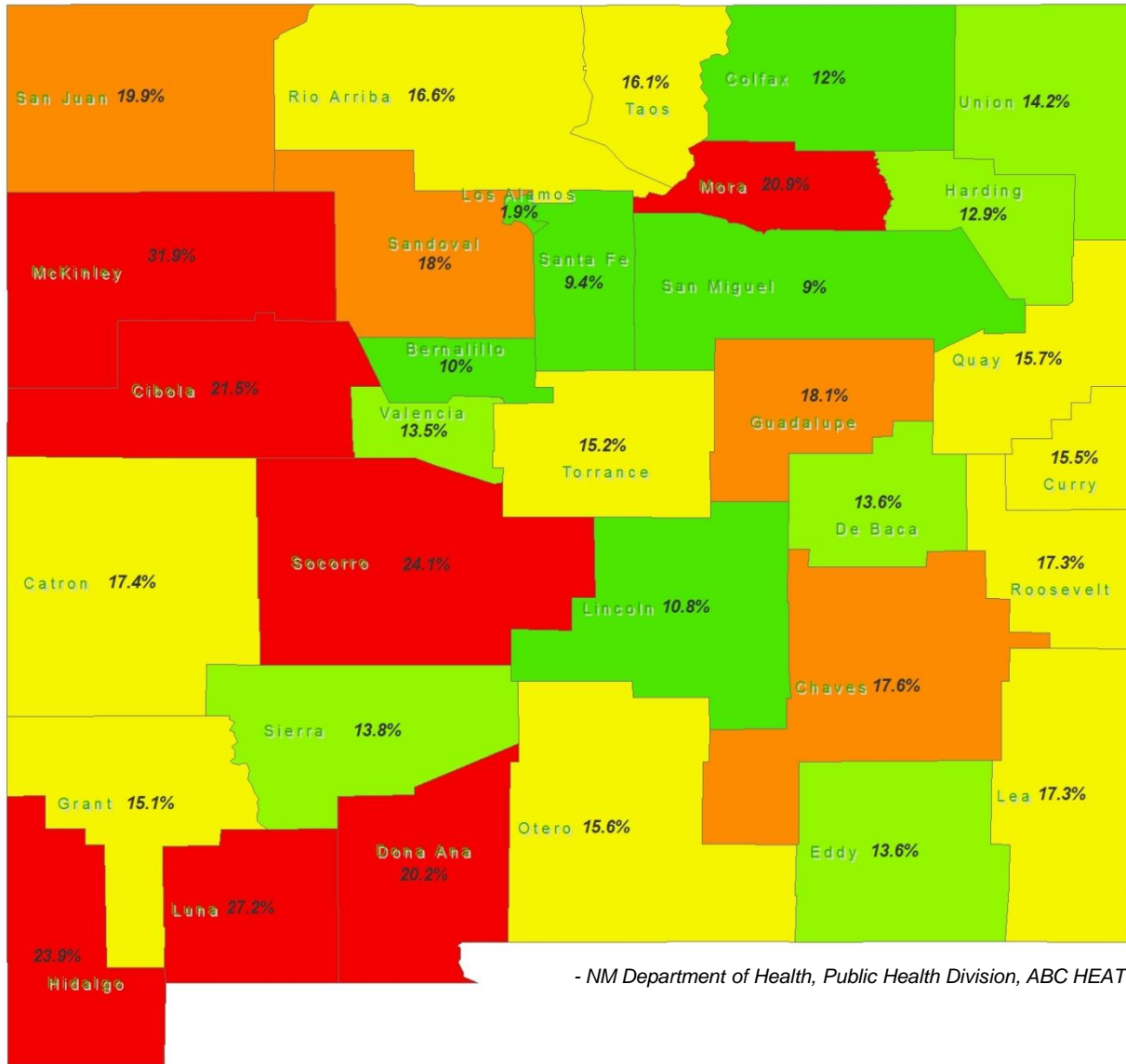
Source: NMDOH, Vital Records, NM IBIS

- Less than 7% of births
- 7.1% - 8%
- 8.1% - 9%
- 9.1% - 11%
- 11.1% or greater

Statewide, 8.6% of all babies born during the period 2004-2008 weighed less than 2500 grams.

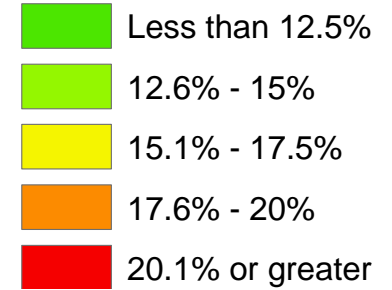
- NM Department of Health, Public Health Division, ABC HEAT

Where Are Children At Risk Based On % Of Families In Poverty?



Families Under 100% of Federal Poverty Level, 2008

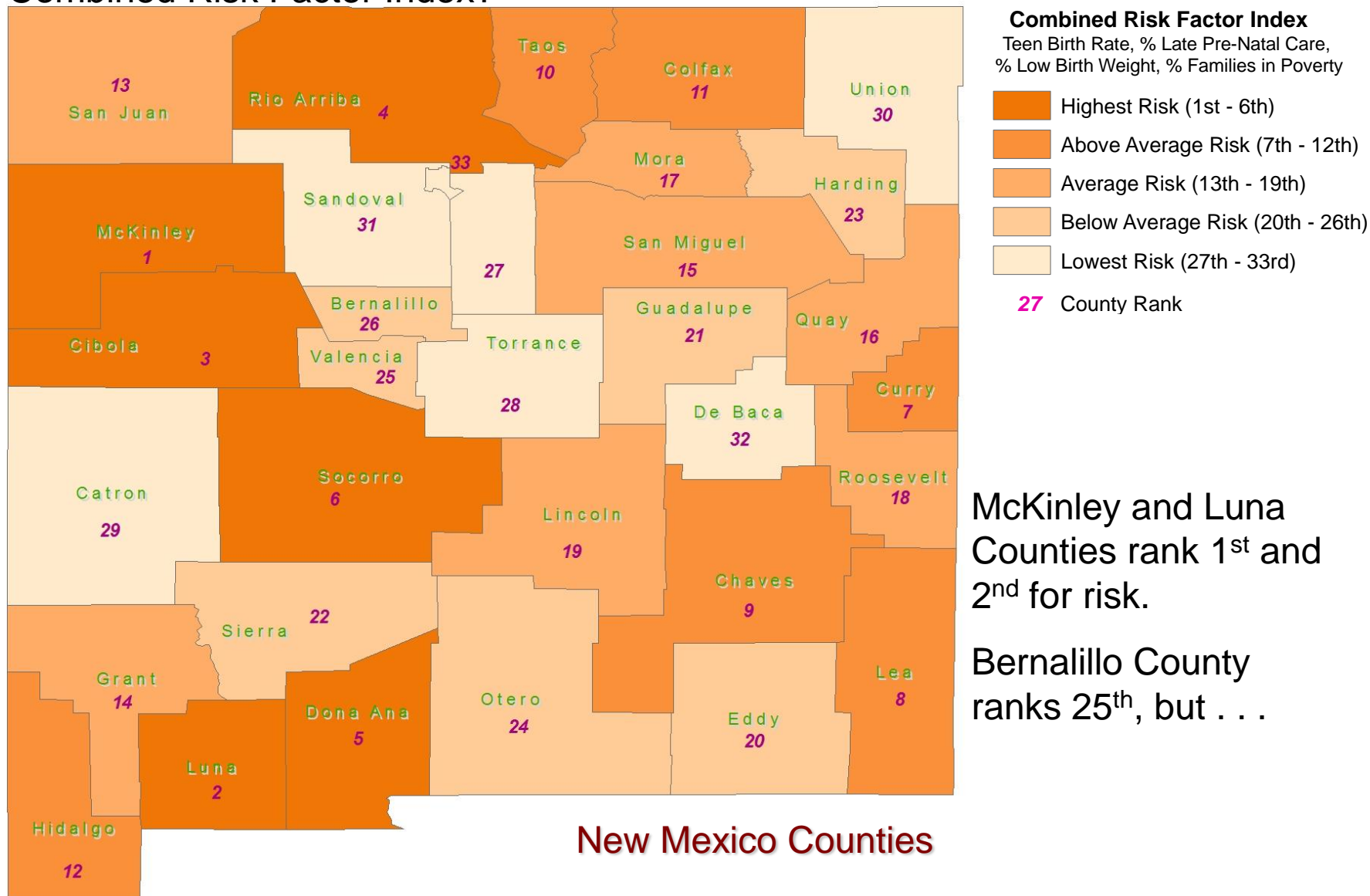
Source: US Census, ACS, 2008



Over 317,000 people in New Mexico live within incomes below the Federal Poverty Level.

- NM Department of Health, Public Health Division, ABC HEAT

In which *NM Counties* are children and their families most at risk based on a Combined Risk Factor Index?

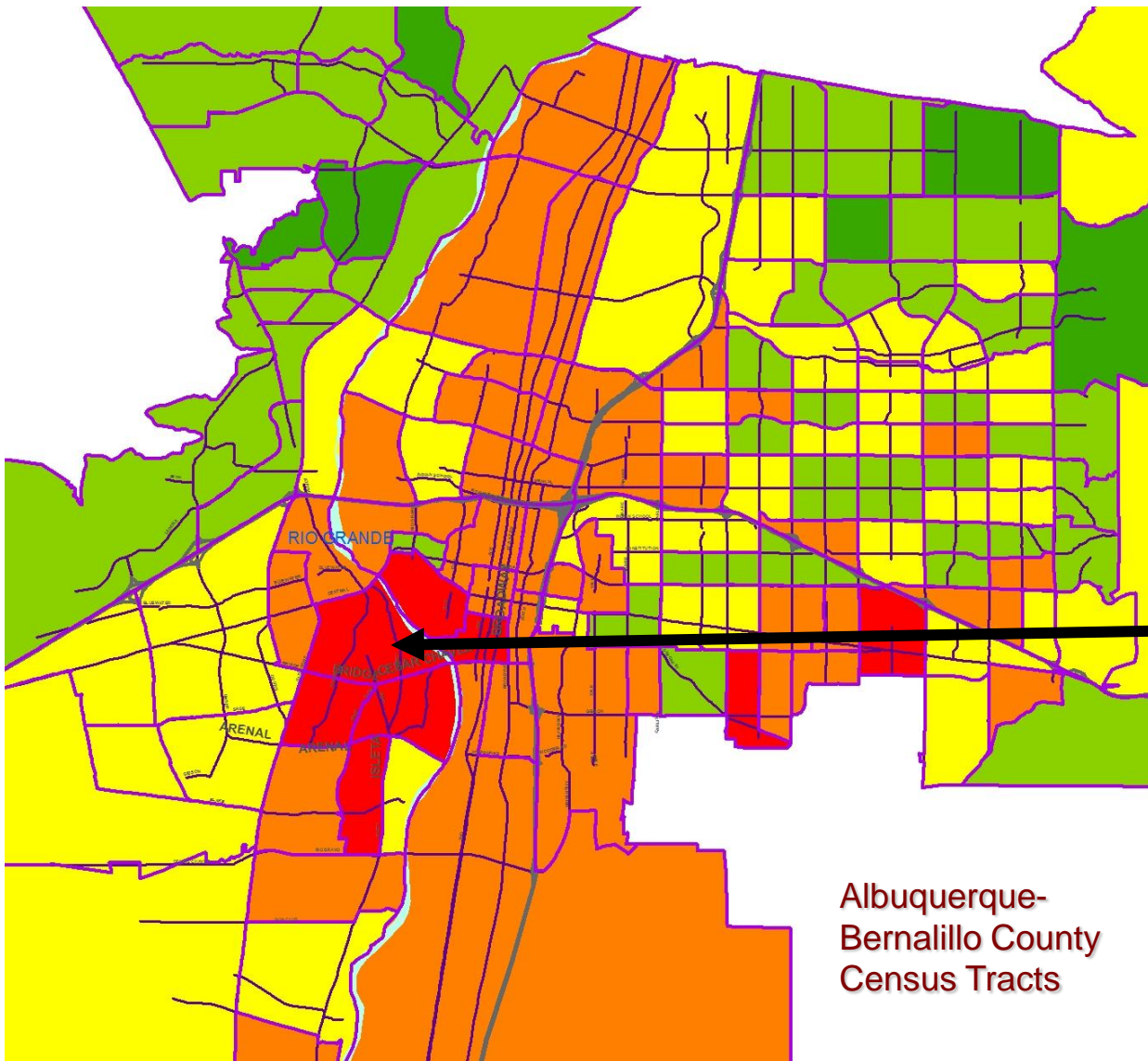


McKinley and Luna Counties rank 1st and 2nd for risk.

Bernalillo County ranks 25th, but . . .

New Mexico Counties

In which *Bernalillo County* neighborhoods are they most at risk?



Combined Risk Factor Index

% Teen Births, % Late Pre-Natal Care,
% Low Birth Weight, % Low Income HHs

- Lowest Risk
- Lower Risk
- Average Risk
- Higher Risk
- Highest Risk

Mapping neighborhoods reveals that a large area of the South Valley has risk levels as high as McKinley County.

Albuquerque-
Bernalillo County
Census Tracts

An index combining 4 key factors was used to identify 6 contiguous South Valley and South Central Albuquerque census tracts with the highest need for home visitation programs. This slide shows all Albuquerque census tracts evaluated for those 4 risk factors. The colors on the map represent the relative level of risk.

SELECTED MEASURES OF EARLY CHILDHOOD **SERVICES**

May 31, 2011

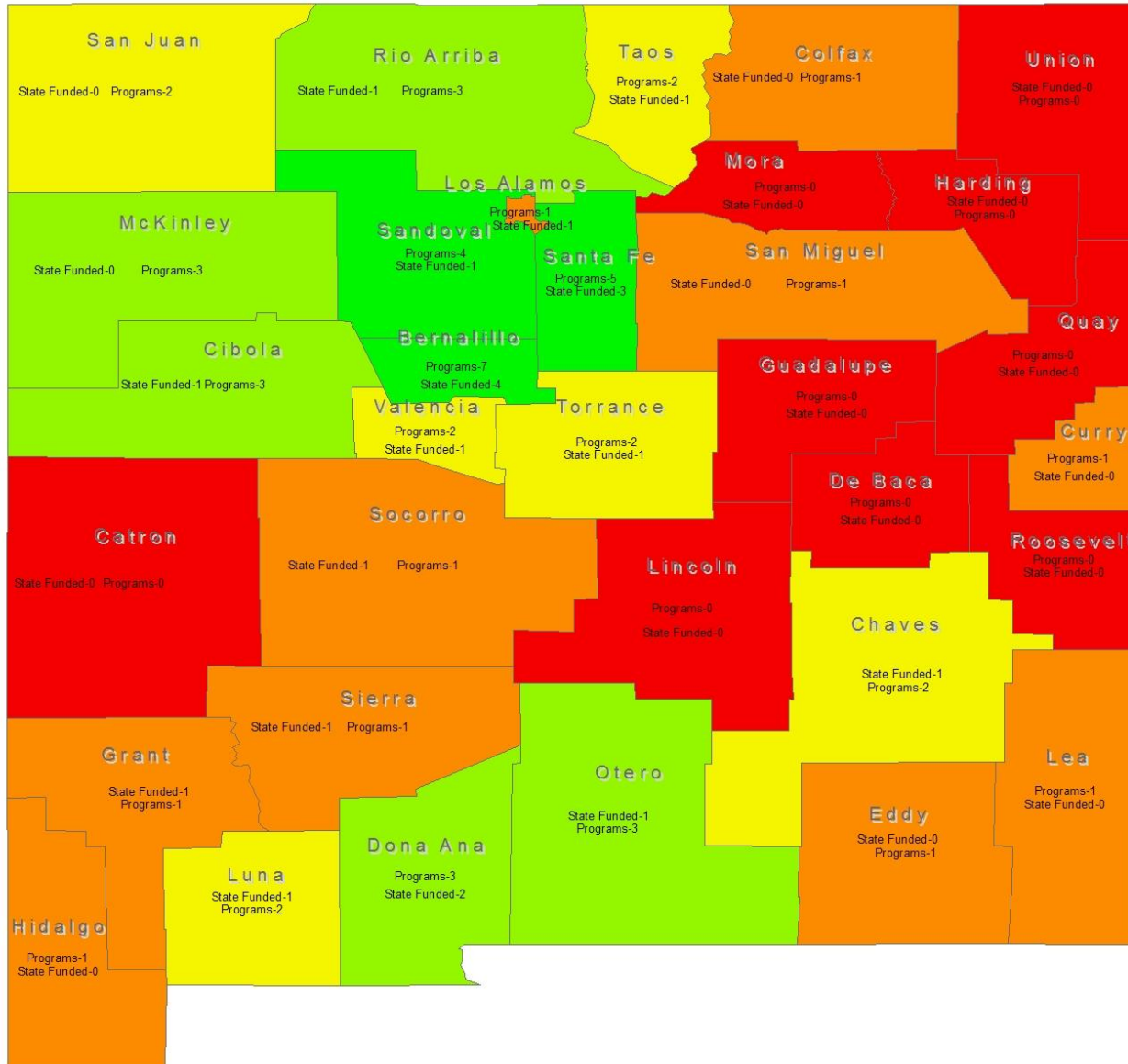
HOME VISITATION

NM COUNTIES

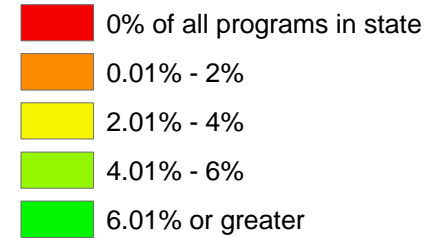
2010

NEW MEXICO COMMUNITY DATA COLLABORATIVE

Where does New Mexico offer home visitation services to newborns?



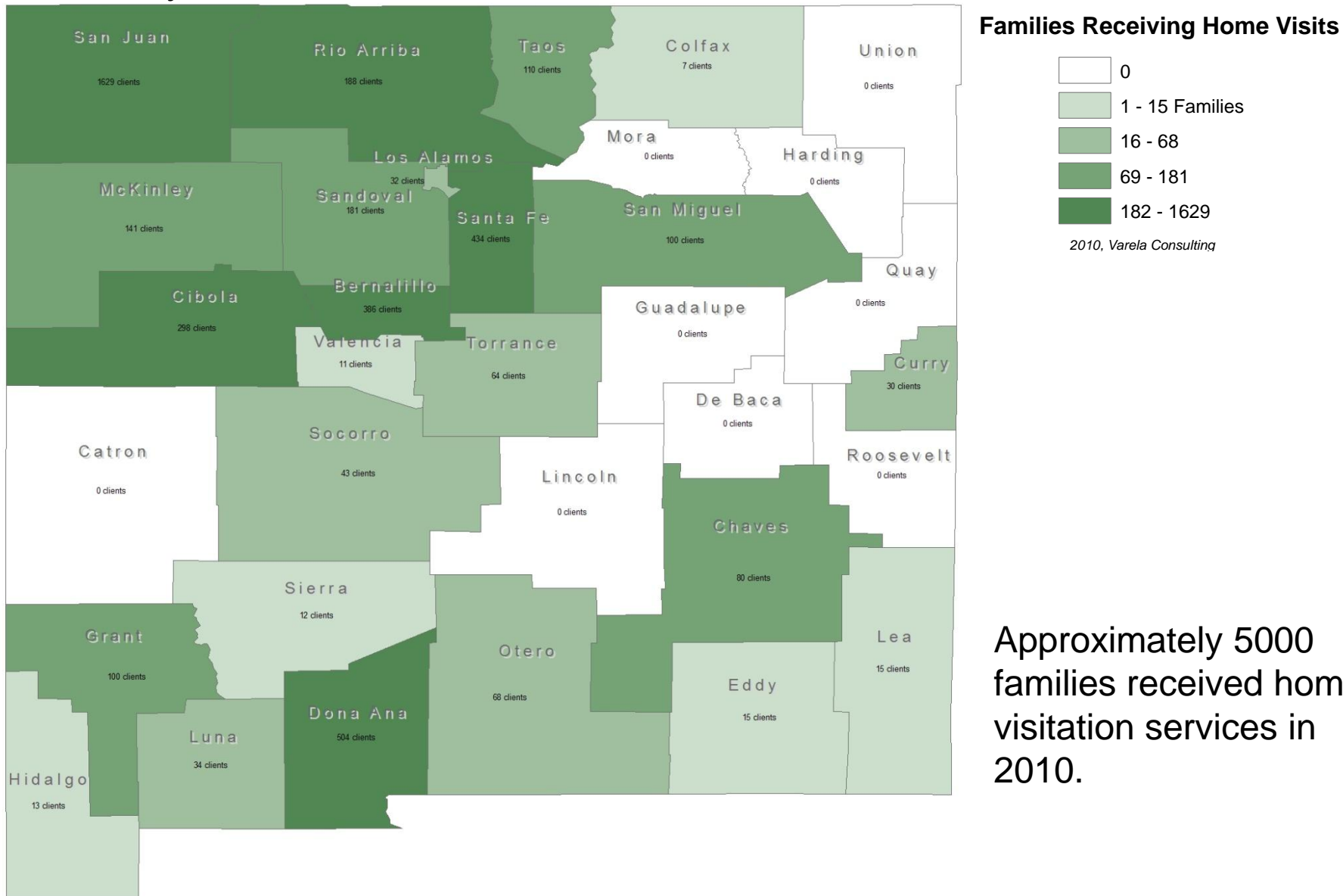
Home Visitation Programs 2010, Number and Percent of Programs Number Funded by State



2010, Varela Consulting

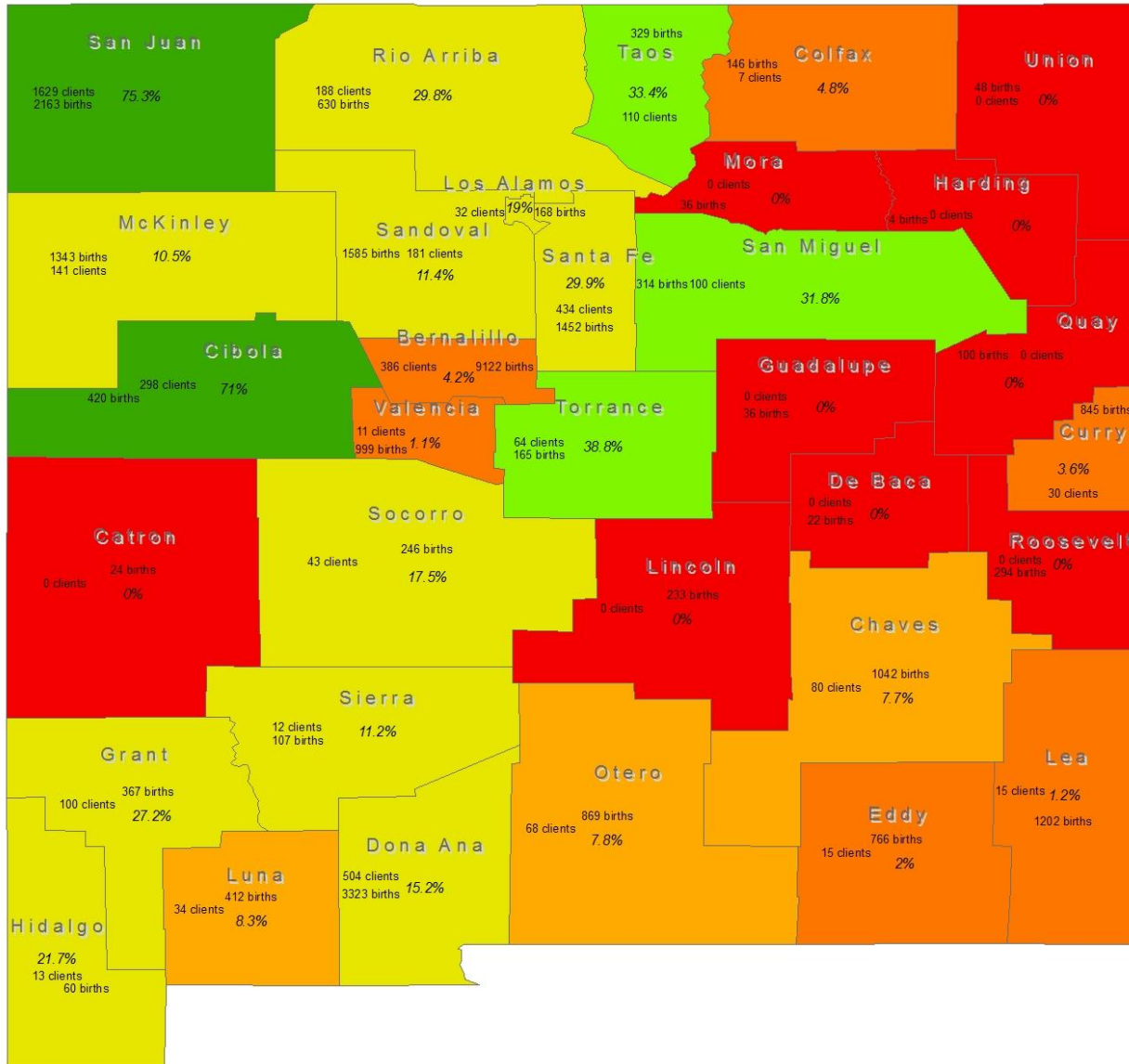
There are 53 programs providing home visitation services in New Mexico.

How many of New Mexico's families receive home visitation services?

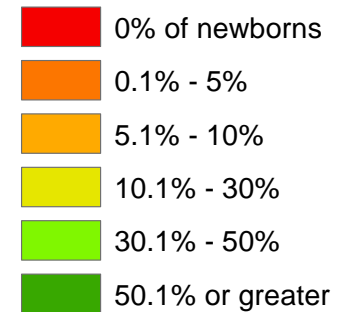


Approximately 5000 families received home visitation services in 2010.

What percentage of New Mexico's newborns receive home visitation services?



Home Visitation Clients as a Percent of Newborns



2010, Varela Consulting;
2009, NMDOH Vital Records

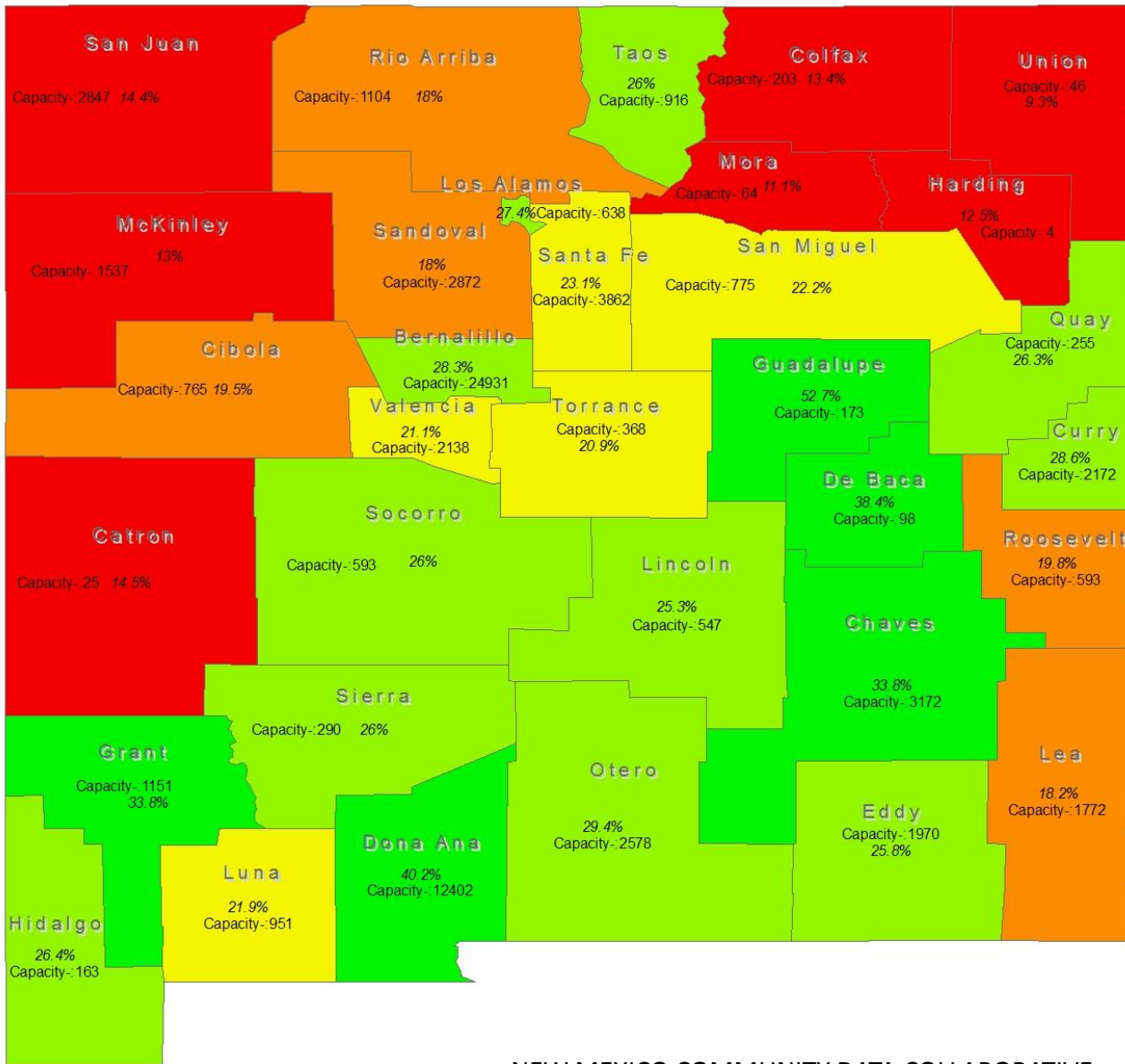
Approximately 5000 newborns (17%) received home visitation services in 2010. In San Juan and Cibola counties, over 50% of newborns received home visitation services.

CHILD CARE

NM COUNTIES & CENSUS TRACTS
2010

NEW MEXICO COMMUNITY DATA COLLABORATIVE

How many children fit into New Mexico's child care facilities?



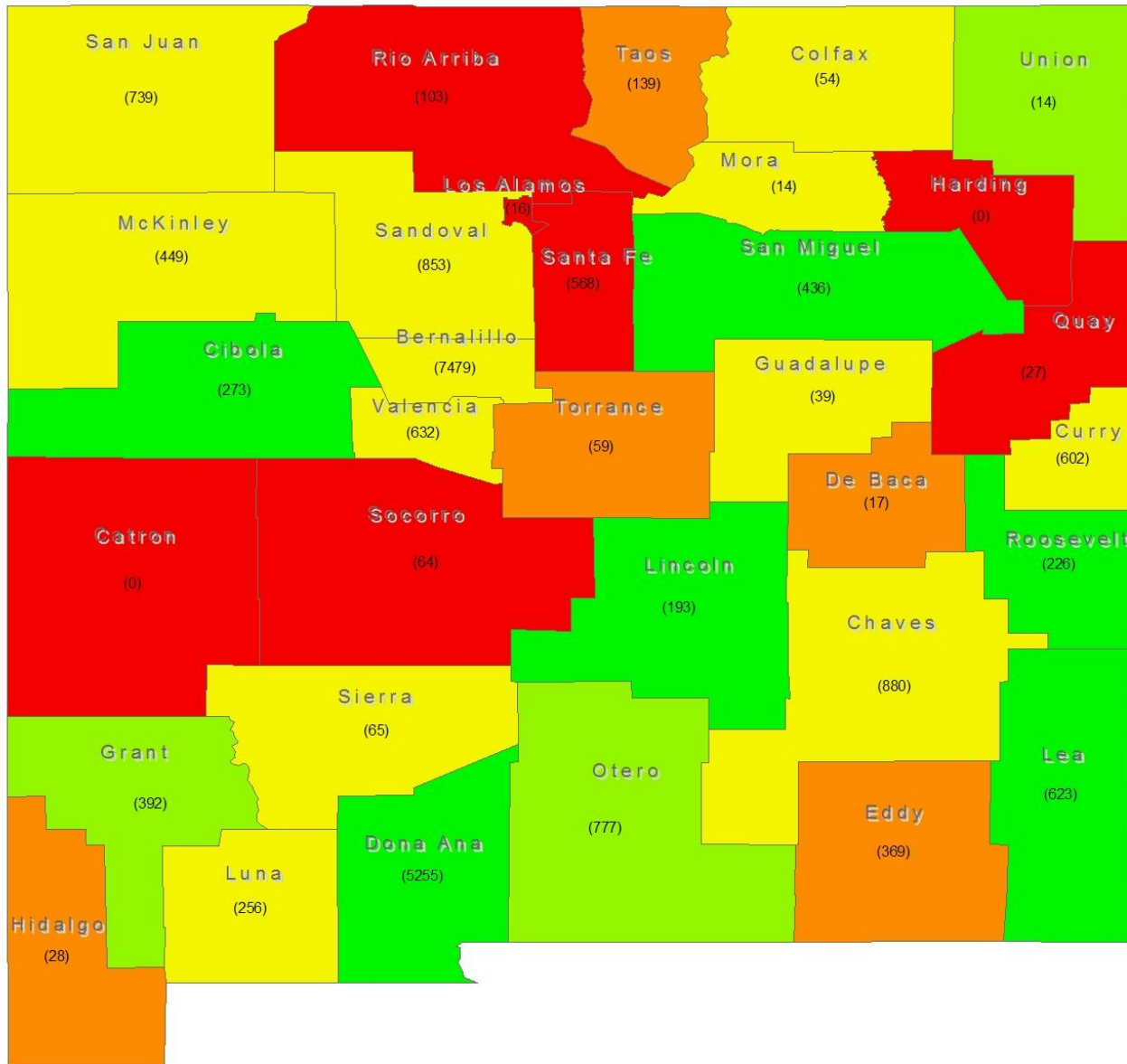
Child Care Capacity
as Percent of Children Under 10 yrs,
and Number of Child Care Slots

- 9.3% - 15% of all children
- 15.1% - 20%
- 20.1% - 25%
- 25.1% - 30%
- 30.1% or greater

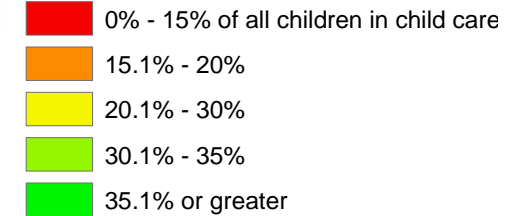
2011, CYFD
Includes all licensed and registered facilities

New Mexico's 5600 Child Care facilities have room for 72,000 children (or 25% of all children under 10).
Capacity varies by county.

How many children are subsidized to attend New Mexico's child care facilities?



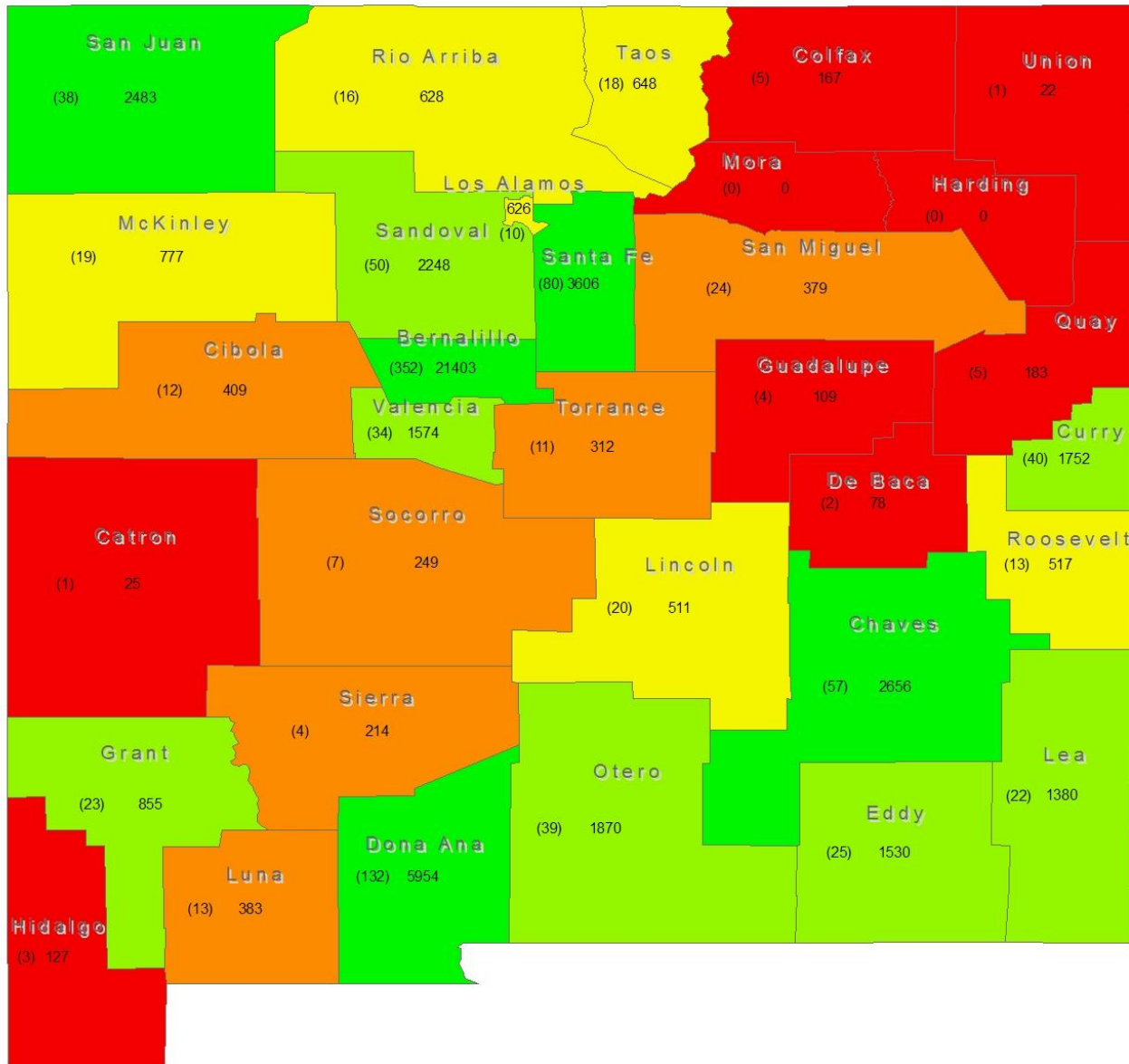
Child Care - Subsidized Placement Percent of All Children in Child Care (Number)



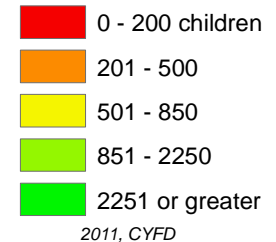
2011, CYFD

NM Child Care facilities receive subsidized funding for 22,000 children (30% of the 72,000 children receiving child care services).

How many children fit into New Mexico's *Licensed* child care facilities?



Capacity at Licensed Centers and Homes (Number of Licensed Centers and Homes)

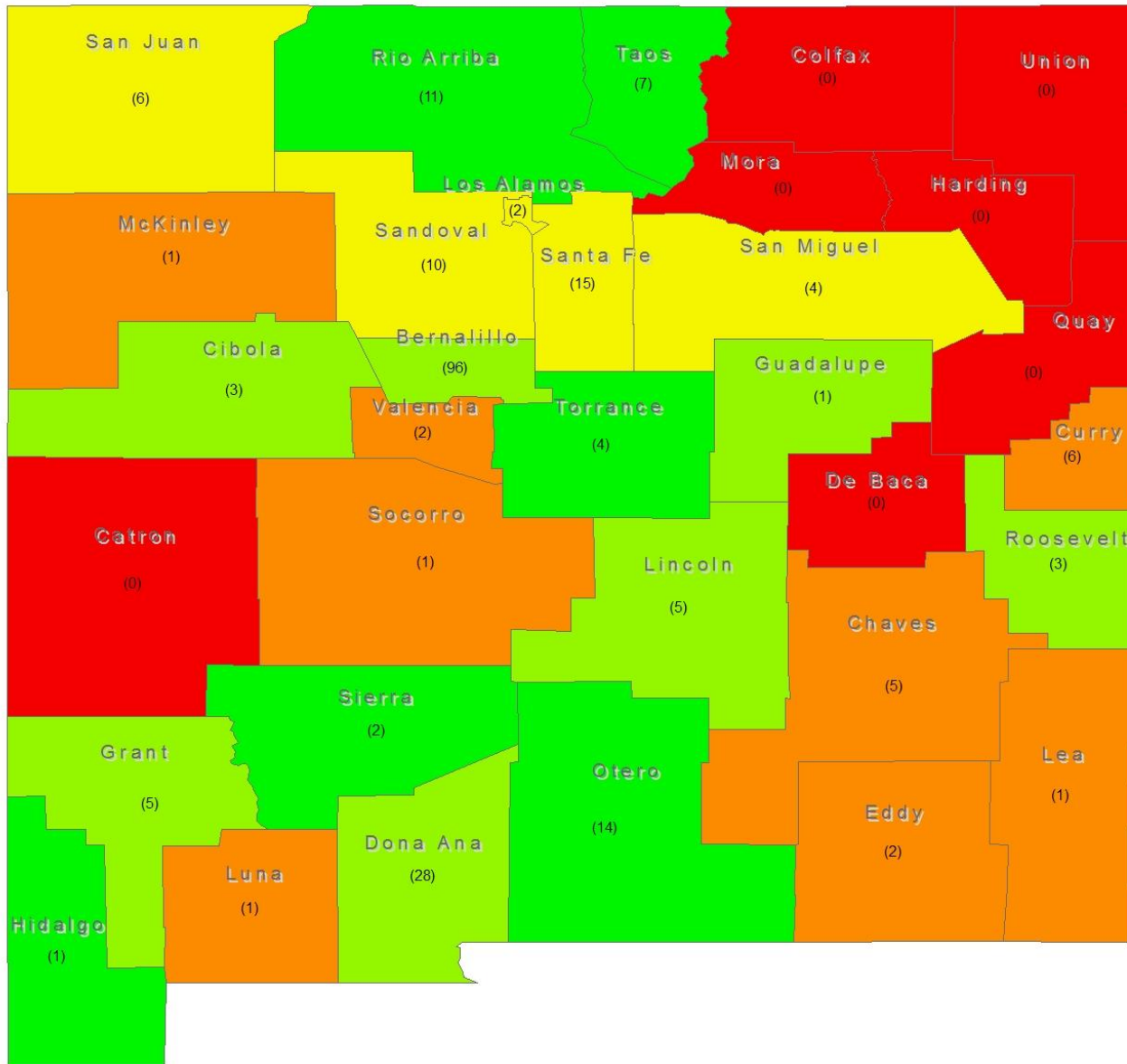


There are 1080 licensed child care facilities, with room – on average – for 50 to 70 children.

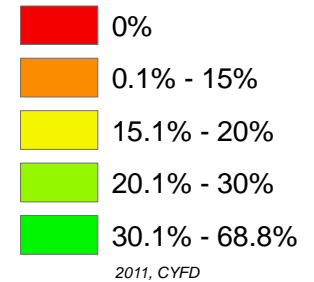
It total, they can accommodate 53,000 children, or 75% of the total child care capacity.

4500 registered facilities, with room for 4 children each, serve the other 18,000 children.

How many high quality licensed child care facilities are there in New Mexico?



4 & 5 Star Licensed Centers and Homes as Percent of all Licensed Centers and Homes
(Number 4 & 5 Star)

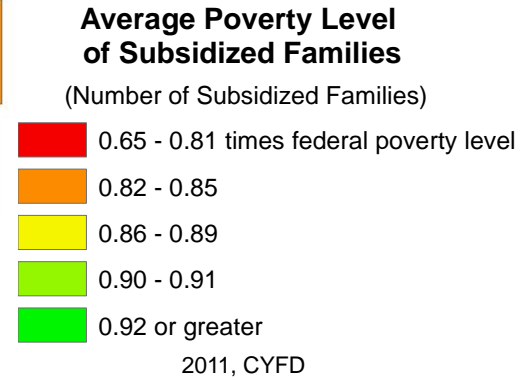
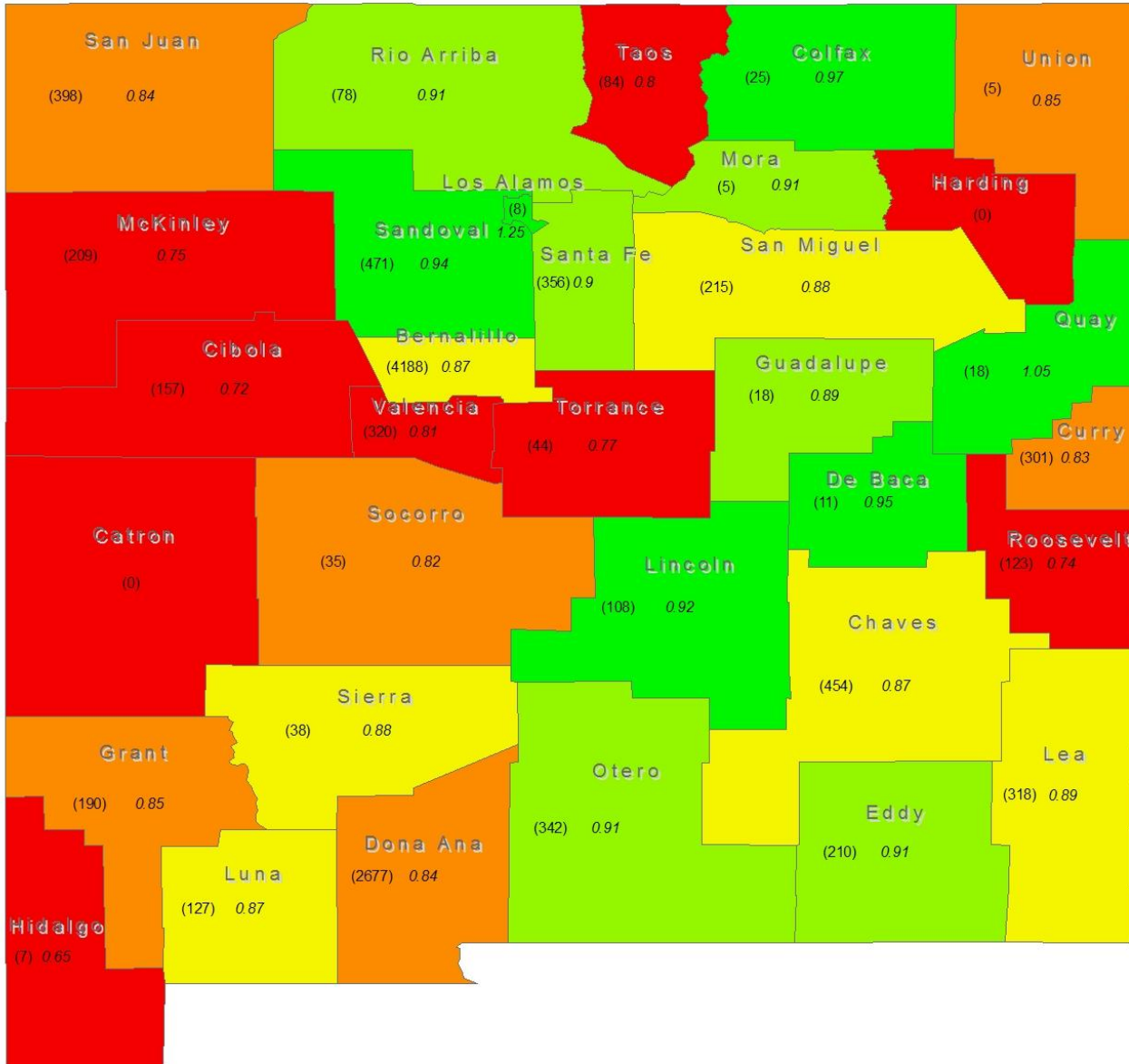


There are 1080 licensed child care facilities, including 236 that are rated as 4- or 5-Star.

4- or 5-Star facilities make up 4% of all facilities (licensed and registered) and 21% of all licensed facilities.

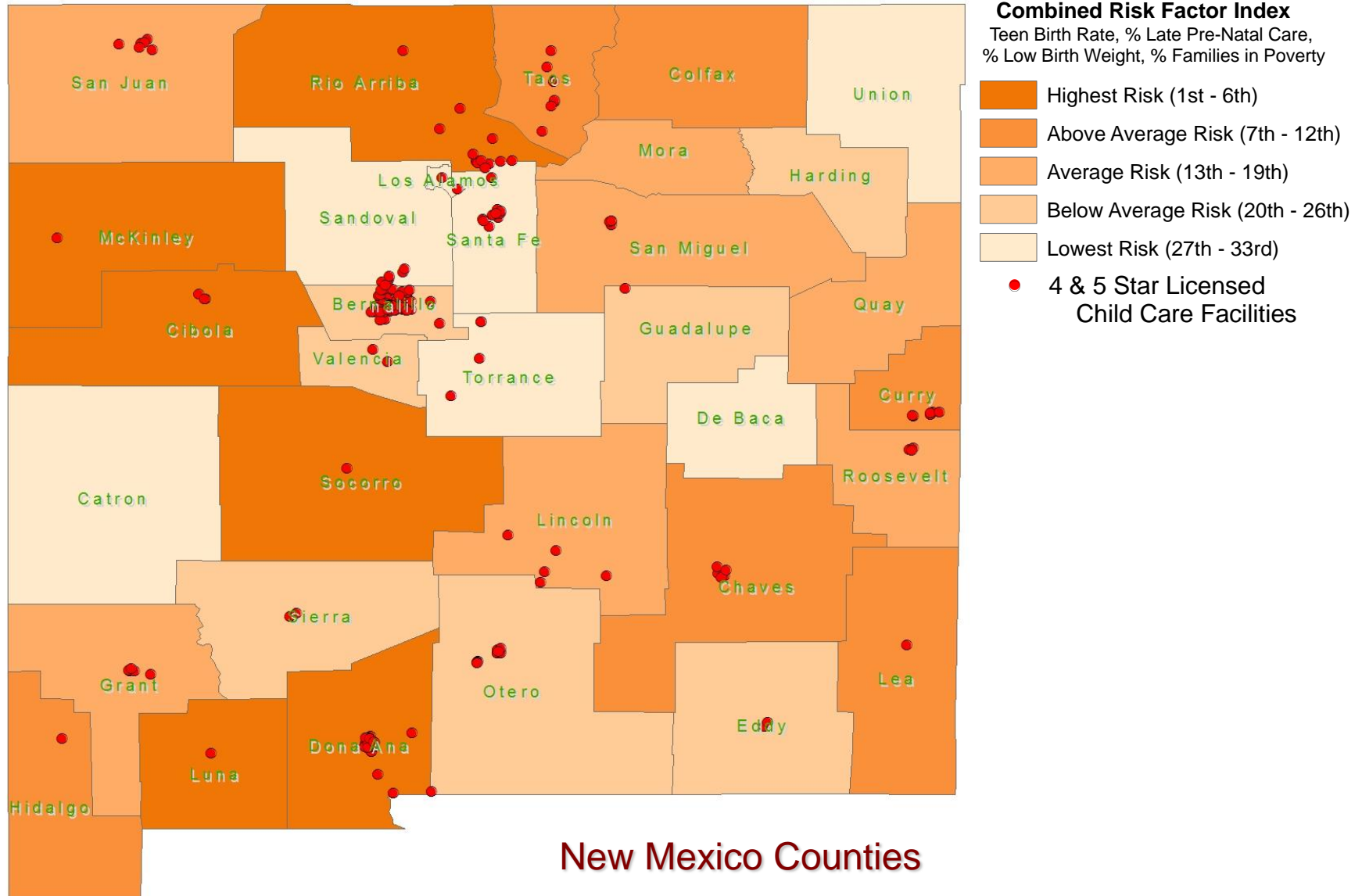
Together they hold 16,000 children, or 22% of children in child care.

How poor are the families receiving subsidized child care in New Mexico?

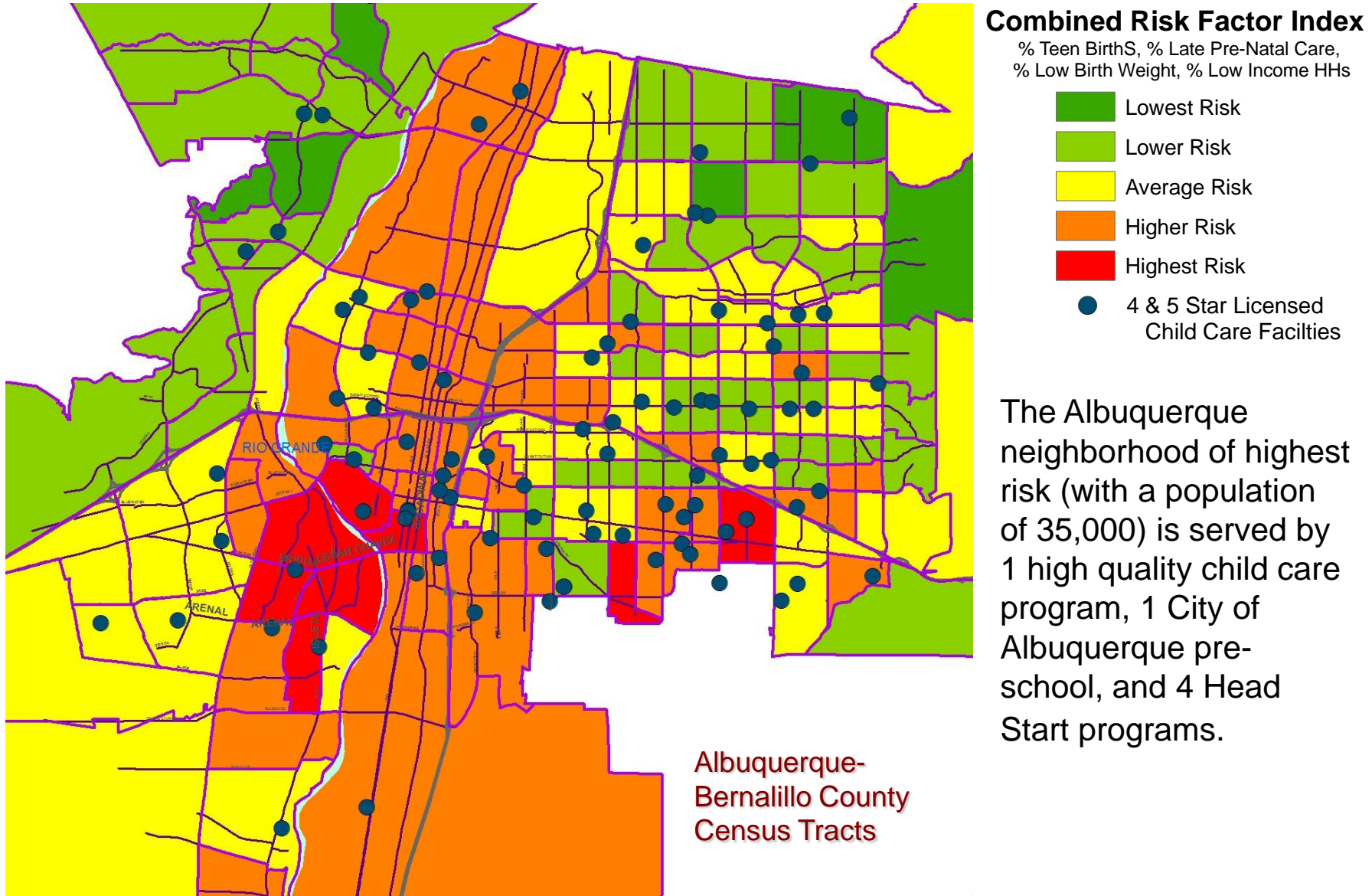


The average family qualifying for subsidized child care has an income below the federal poverty level.

Are there high quality Child Care programs in the areas most at risk?

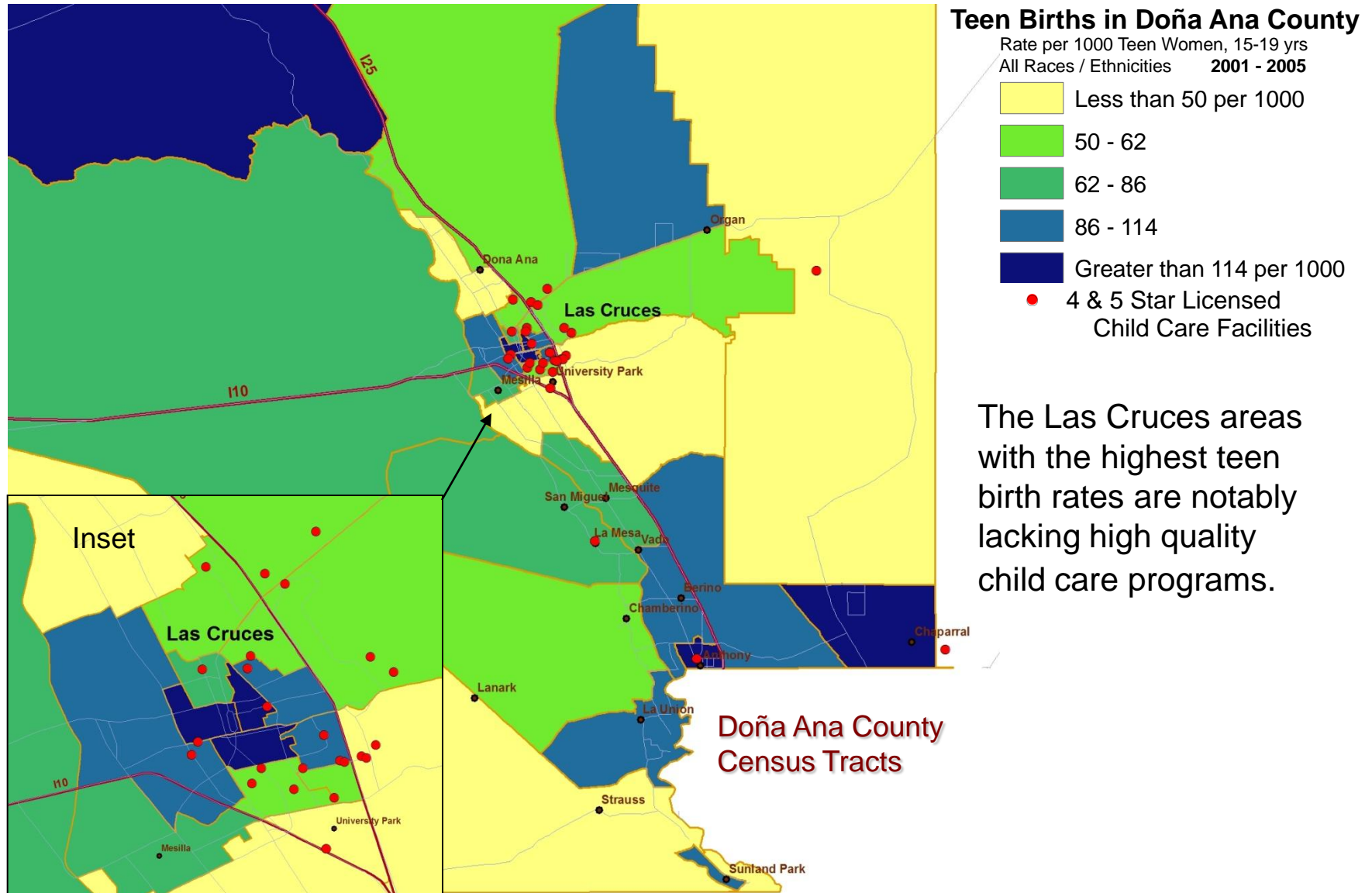


Are there high quality Child Care programs in the areas most at risk in Albuquerque?



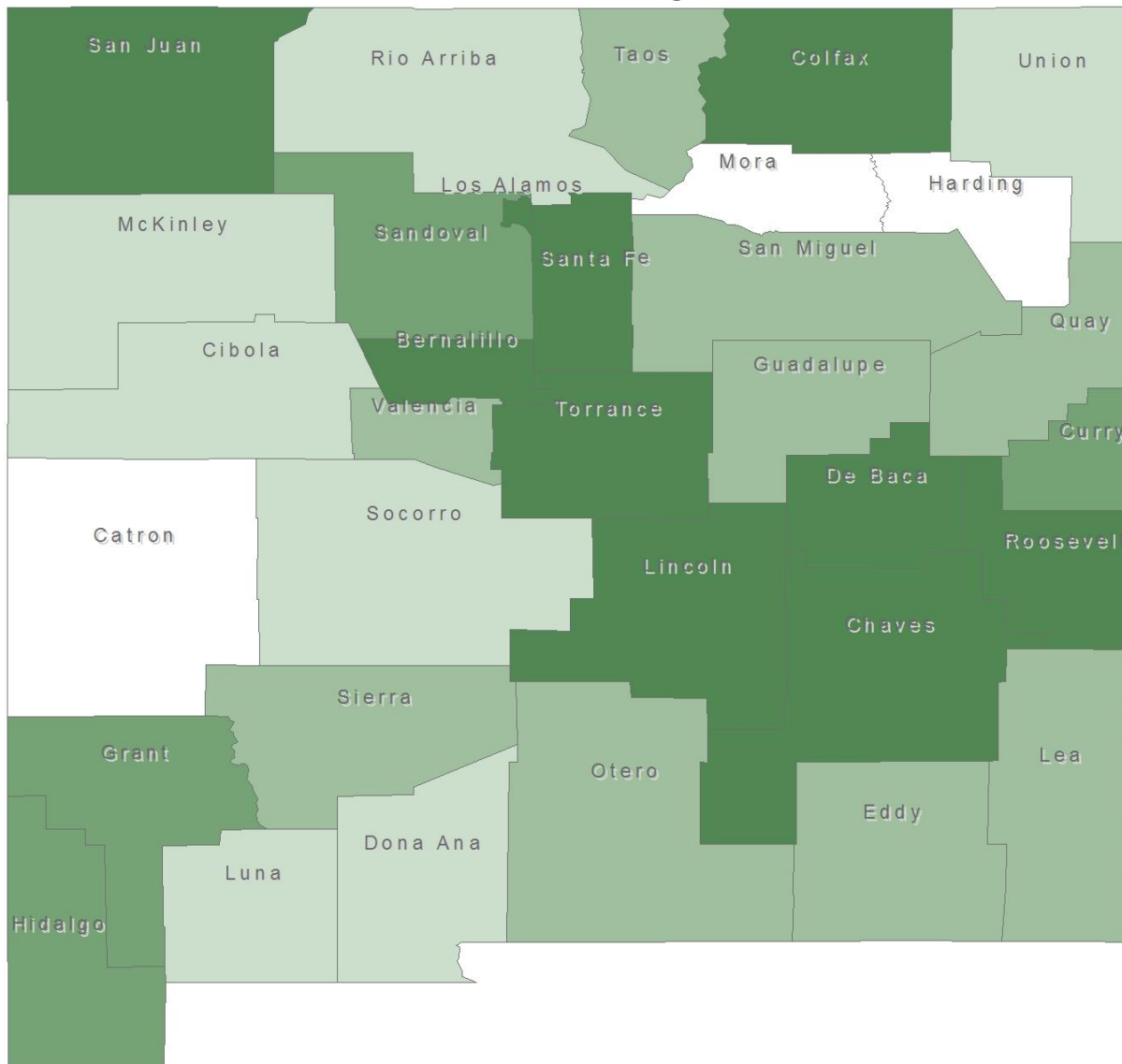
The Albuquerque neighborhood of highest risk (with a population of 35,000) is served by 1 high quality child care program, 1 City of Albuquerque pre-school, and 4 Head Start programs.

Are there high quality Child Care programs in the areas at risk in Las Cruces?

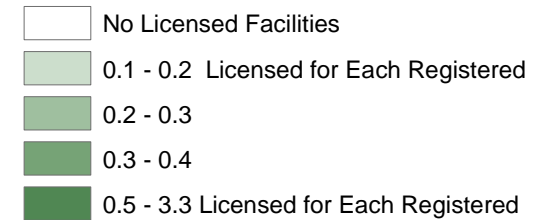


- NM Department of Health, Public Health Division, ABC HEAT

What is the ratio of licensed to registered child care facilities – by county?



Access to Quality Child Care
Ratio, Licensed Centers : Registered Homes



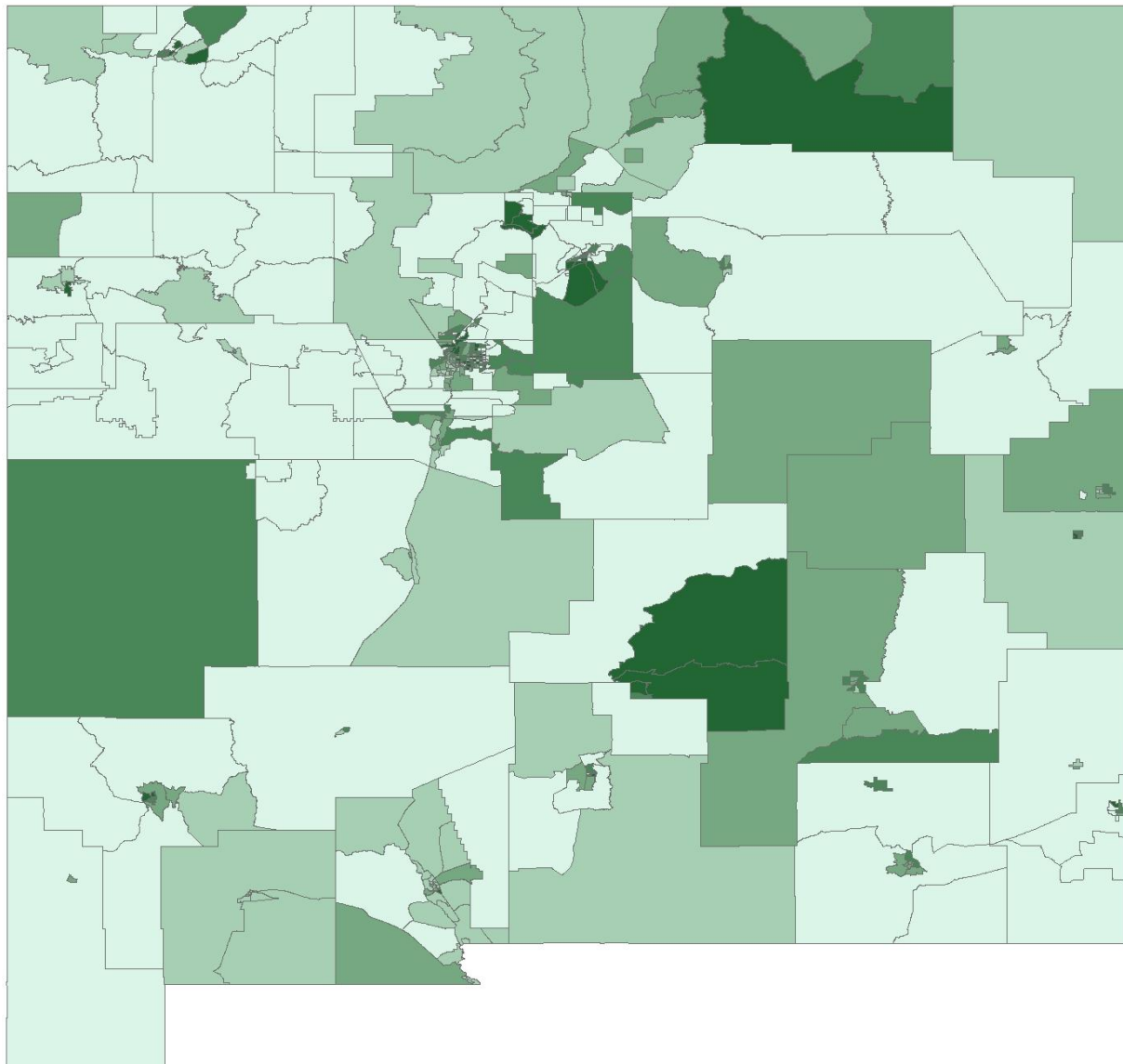
Source: CYFD

NM COUNTIES

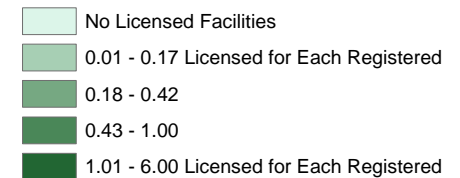
The number of *licensed* child care facilities compared to *registered* child care homes varies from 1-to-10 to 3-to-1 depending on the county.

Three NM counties have no licensed facilities.

What is the ratio of licensed to registered child care facilities – by census tract?



Access to Quality Child Care Ratio, Licensed Centers : Registered Homes



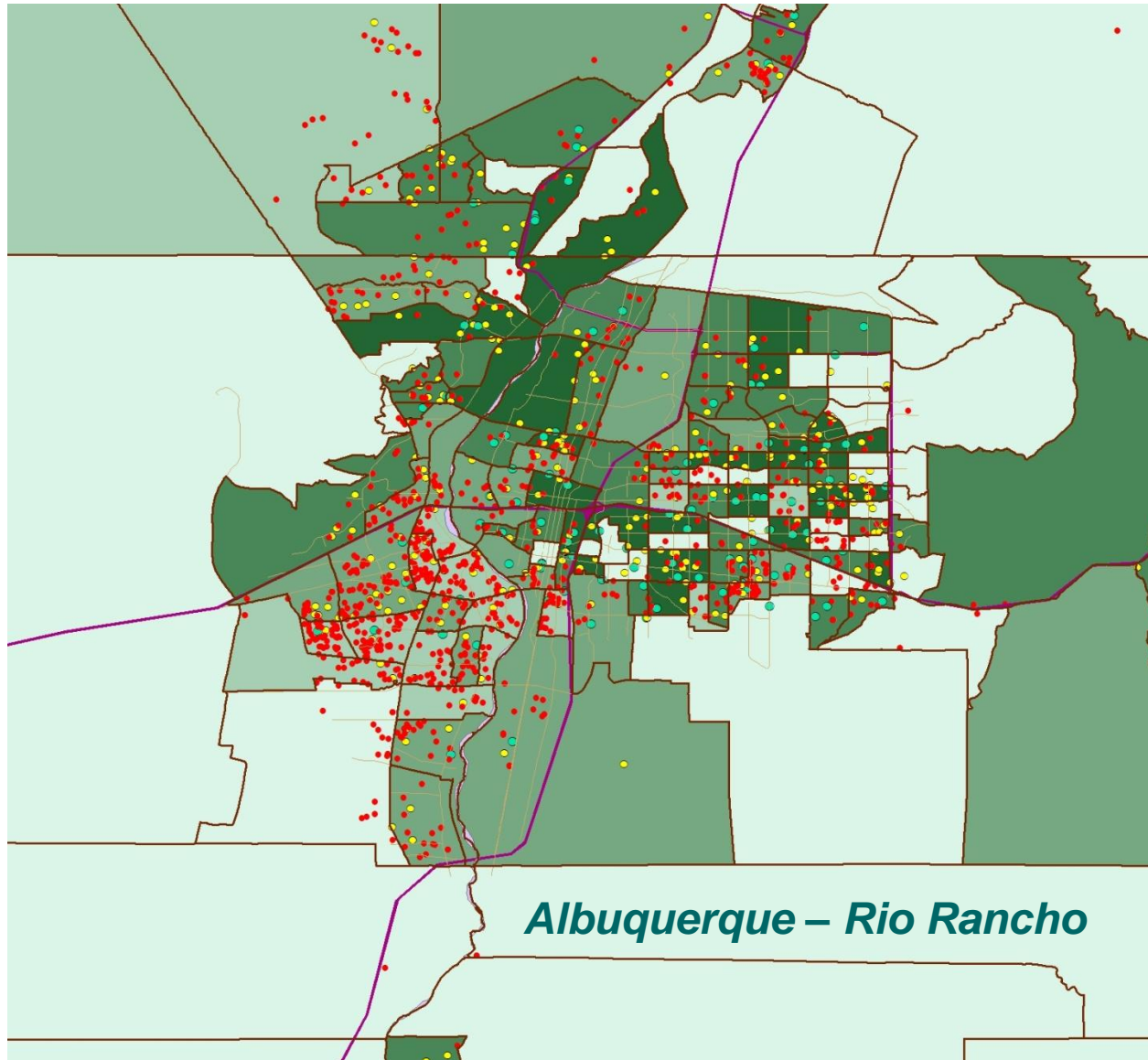
Source: CYFD

NM CENSUS TRACTS

The number of *licensed* child care facilities compared to *registered* child care homes varies from 1-to-10 to 5-to-1 depending on the census tract.

25% of NM census tracts have no licensed child care facilities.

Albuquerque - licensed vs. registered child care facilities



Child Care - Types of Facilities

- 4 & 5-Star Licensed Facilities
- 1, 2 & 3-Star Licensed Facilities
- Registered Home

Source: CYFD

Ratio, Licensed Centers : Registered Homes

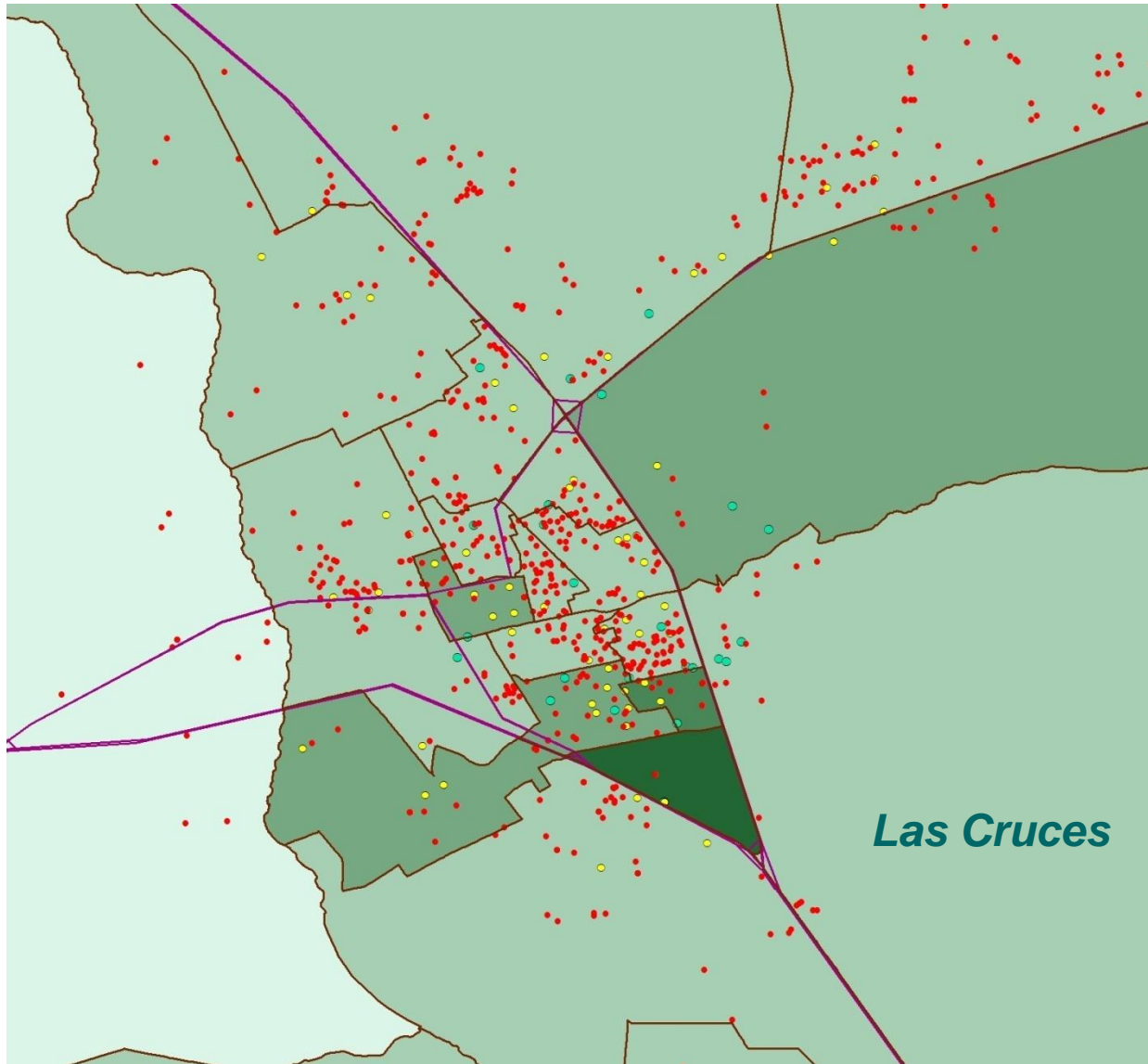
- No Licensed Facilities
- 0.01 - 0.17 Licensed for Each Registered
- 0.18 - 0.42
- 0.43 - 1.00
- 1.01 - 6.00 Licensed for Each Registered

Source: CYFD

NM CENSUS TRACTS & POINT LOCATIONS

Licensed Child Care Centers (and 4 & 5 Star Centers) tend to cluster in certain neighborhoods.

Las Cruces - licensed vs. registered child care facilities



Child Care - Types of Facilities

- 4 & 5-Star Licensed Facilities
- 1, 2 & 3-Star Licensed Facilities
- Registered Home

Source: CYFD

Ratio, Licensed Centers : Registered Homes

- No Licensed Facilities
- 0.01 - 0.17 Licensed for Each Registered
- 0.18 - 0.42
- 0.43 - 1.00
- 1.01 - 6.00 Licensed for Each Registered

Source: CYFD

NM CENSUS TRACTS & POINT LOCATIONS

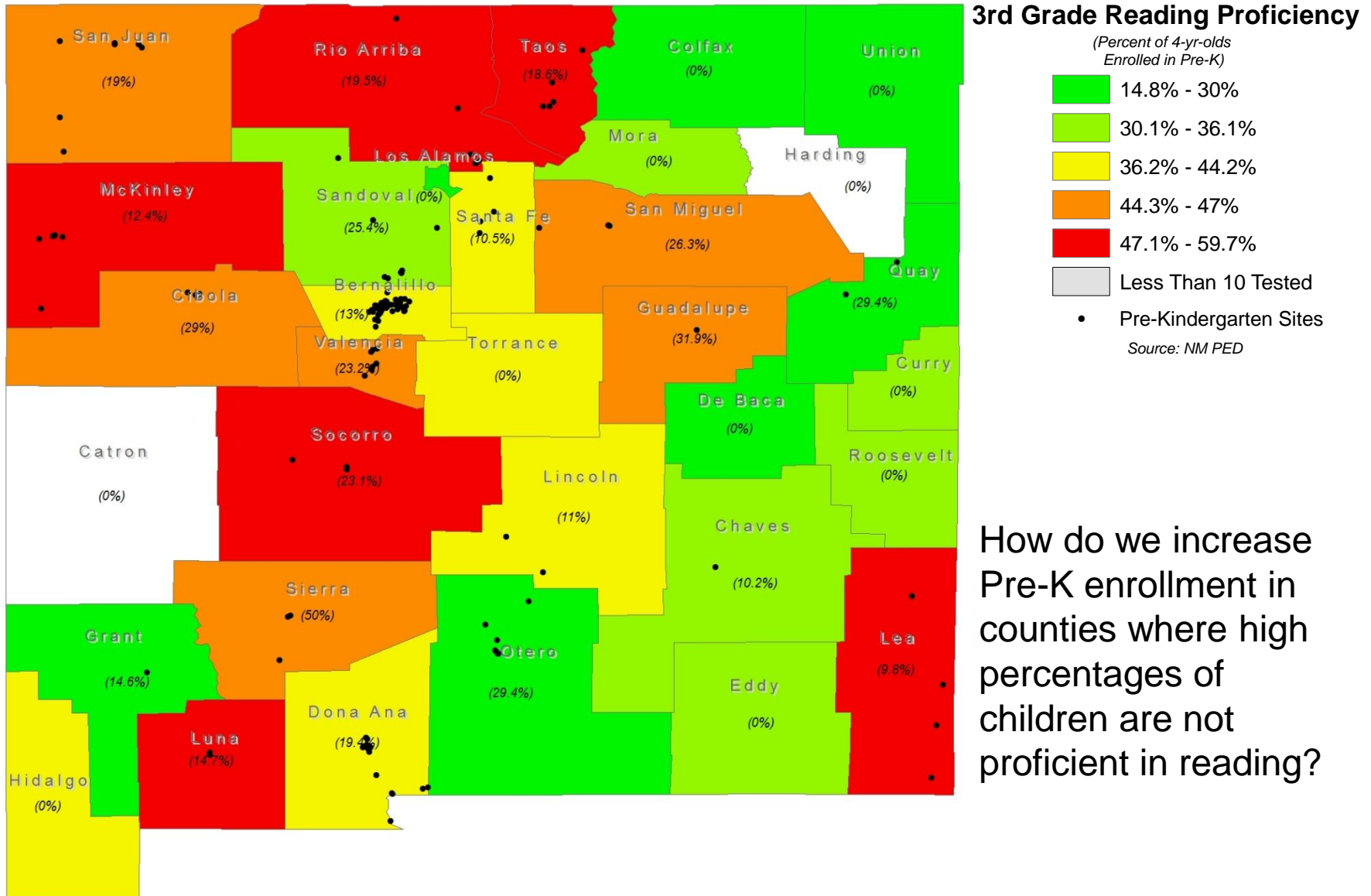
Licensed Child Care Centers (and 4 & 5 Star Centers) tend to cluster in certain neighborhoods.

PRE-KINDERGARTEN

NM COUNTIES
2010

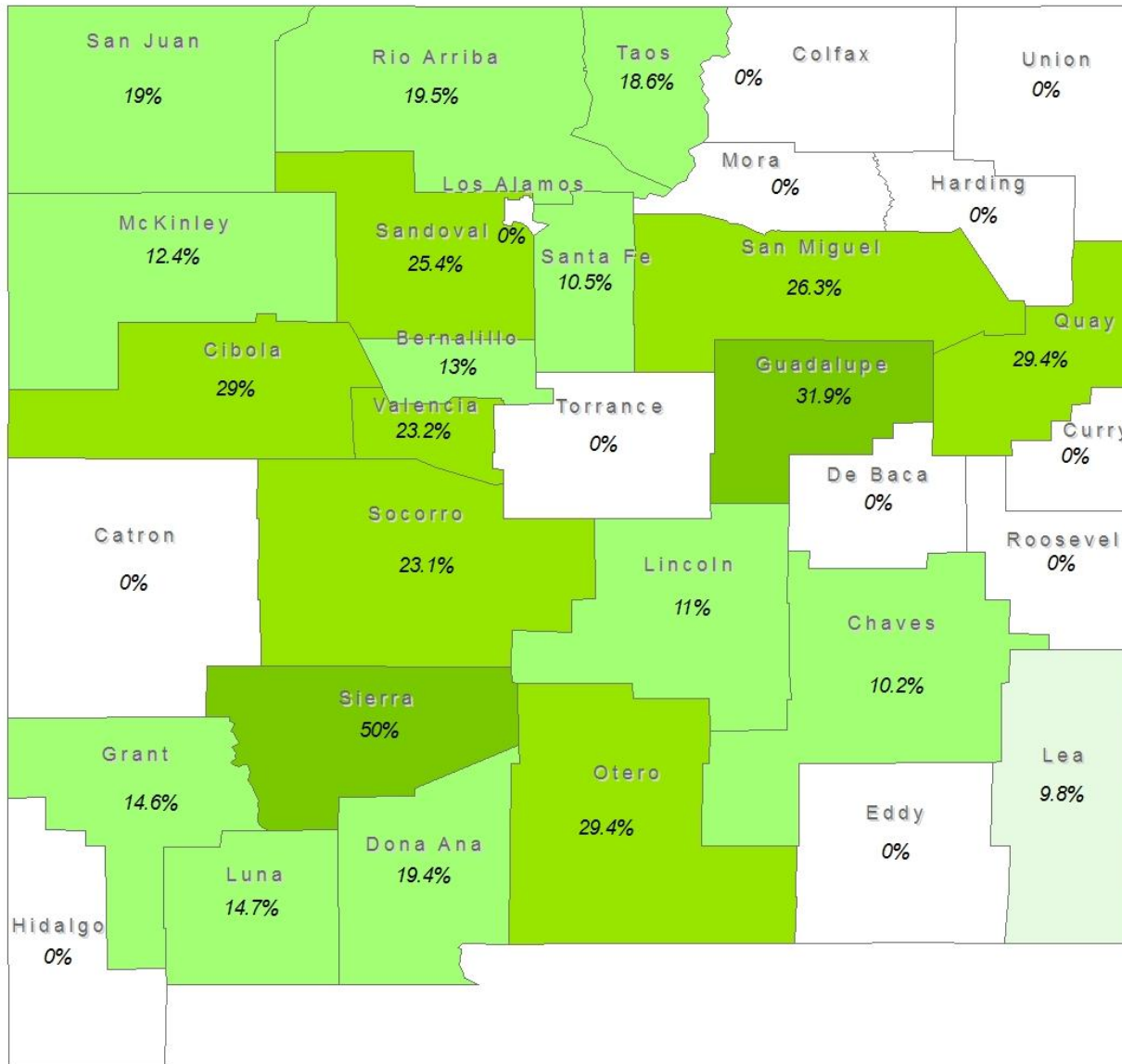
NEW MEXICO COMMUNITY DATA COLLABORATIVE

Are we funding Pre-K where children are at greatest academic risk?

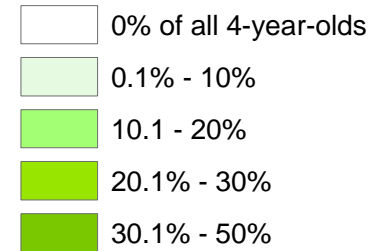


How do we increase Pre-K enrollment in counties where high percentages of children are not proficient in reading?

How many of our 4-year-olds are enrolled in Pre-Kindergarten?



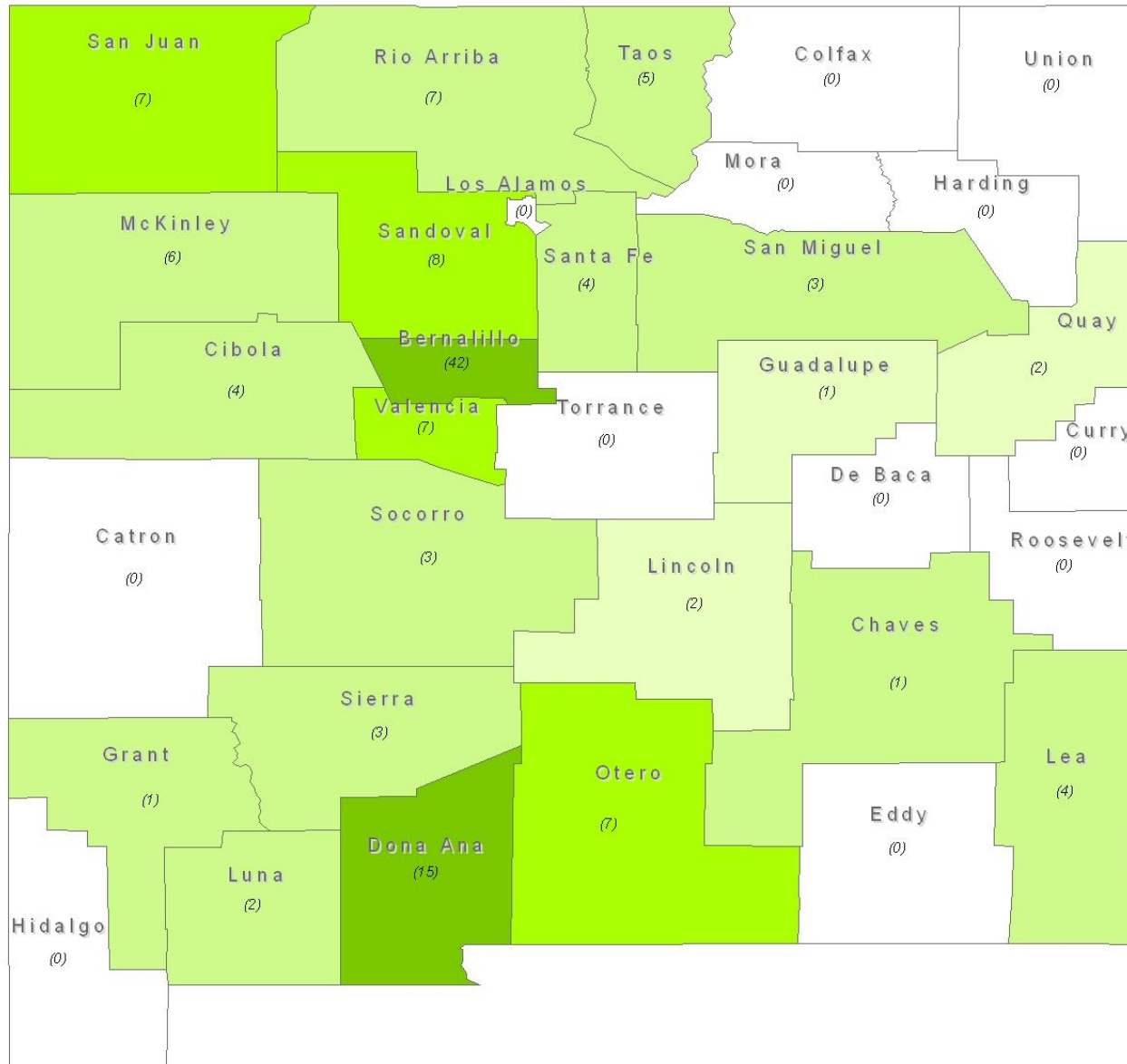
Percent 4-year-olds Enrolled in Pre-Kindergarten



Source: CYFD; NM IBIS

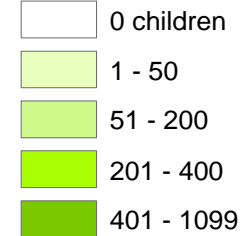
Of 30,000 4-year-olds in New Mexico, a total of 4090 (13.4%) are enrolled at 134 state-funded Pre-Kindergarten sites.

Where are the most 4-year-olds enrolled in Pre-Kindergarten?



Number of Children Enrolled in Pre-Kindergarten, 2011

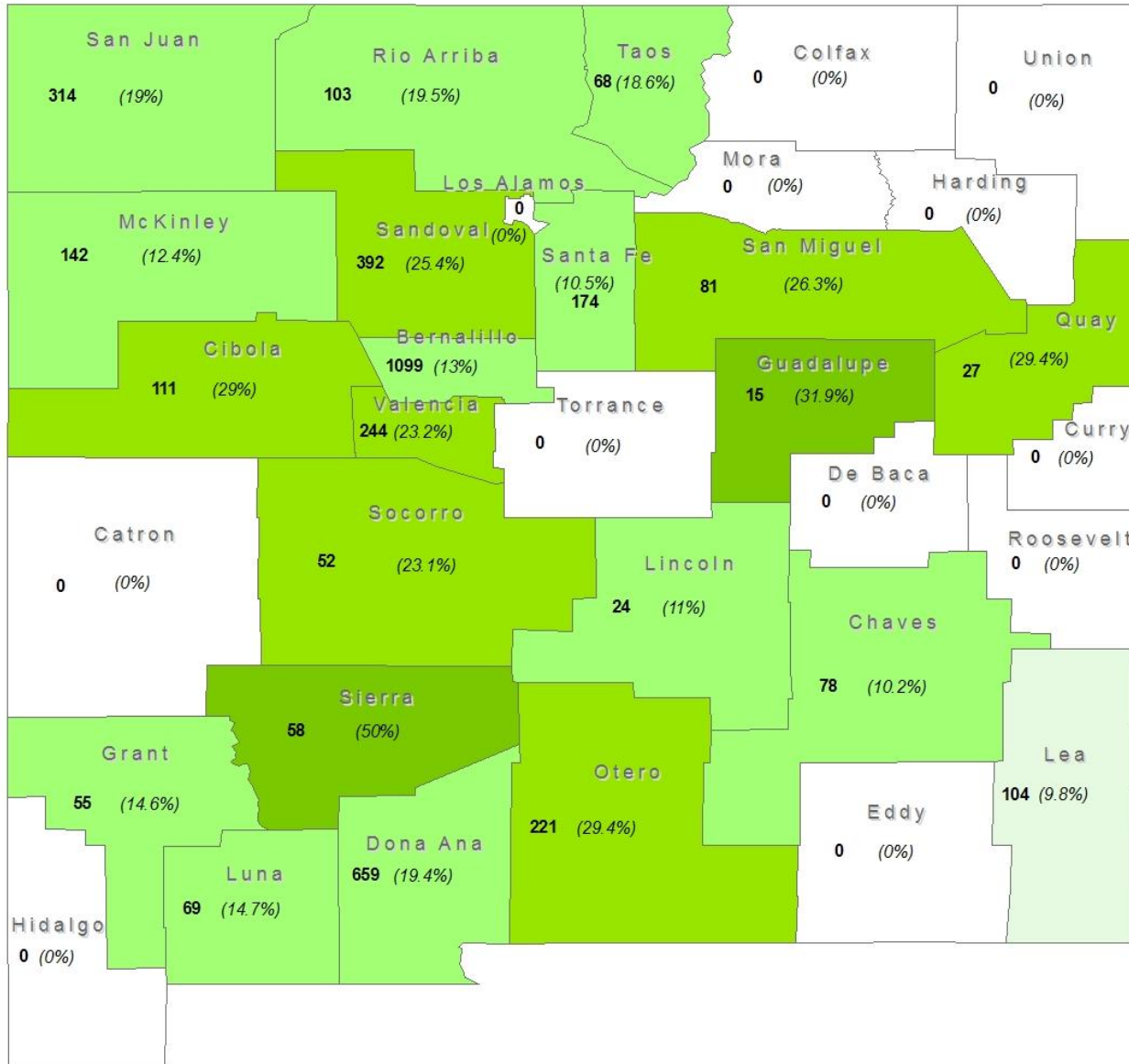
(Number of Sites)



Source: CYFD

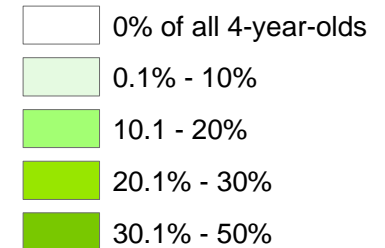
- There a total of 4090 children enrolled at 134 state-funded Pre-Kindergarten sites in New Mexico (as of Feb 2011).
- Bernalillo, Sandoval and Doña Ana Counties account for over 50% of enrollment.
- 11 counties have *no* children enrolled in Pre-Kindergarten.

Where are the highest percentages of 4-year-olds enrolled in Pre-Kindergarten?



Percent 4-year-olds Enrolled in Pre-Kindergarten

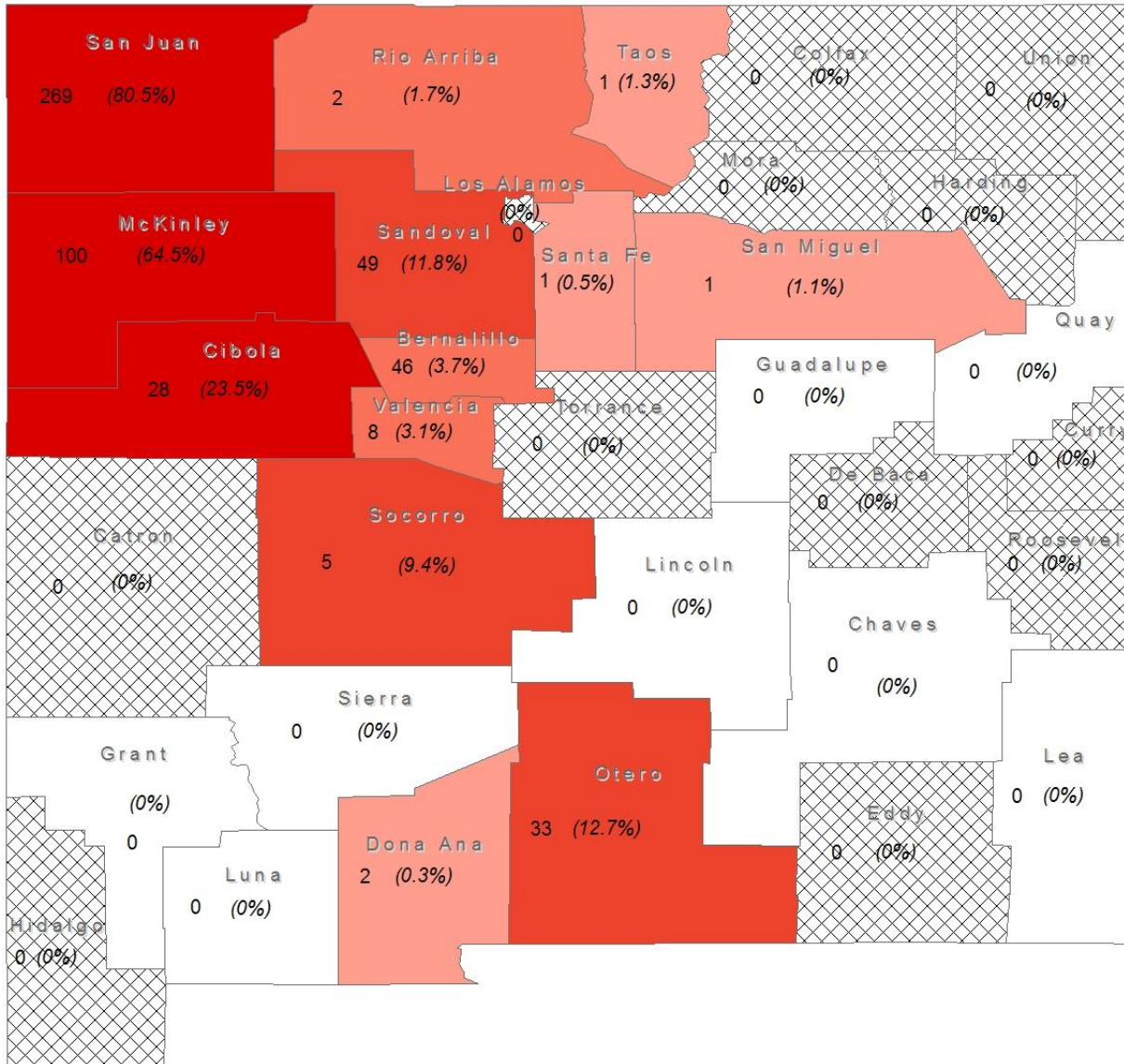
Children Enrolled
(Percent of 4-year-olds)



Source: CYFD; NM IBIS

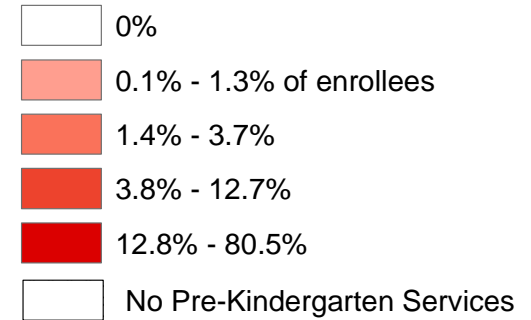
- Sierra and Guadalupe Counties have the highest percent of 4-year-olds enrolled.
- Lea and Chaves Counties have the lowest.
- 11 counties have no children enrolled in Pre-Kindergarten.

How many of our American Indian 4-year-olds are enrolled in Pre-Kindergarten?



American Indian Children Enrolled in Pre-Kindergarten

Number (Percent)

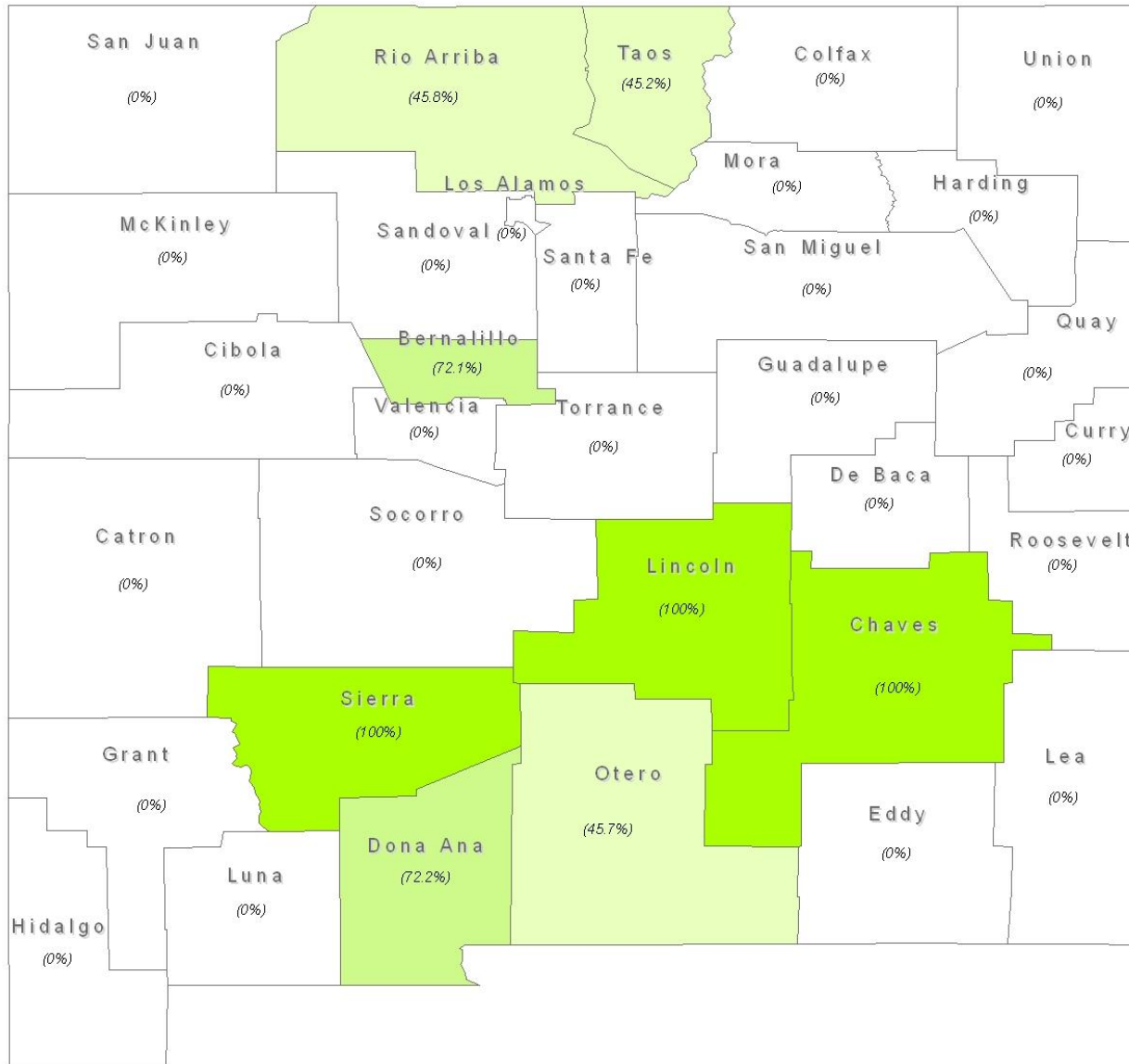


Source: CYFD, NM PED

545 American Indian children are enrolled in Pre-Kindergarten, representing 13.3% of total enrollment and 14% of all 4-year-old American Indian children.

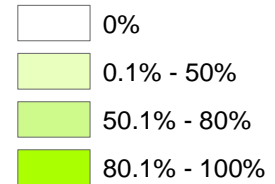
San Juan and McKinley counties account for over 350 of the American Indian children enrolled.

How many children go to high quality Pre-Kindergarten programs?



Percent of Pre-K Children Enrolled in 4- or 5-Star Programs

(Percent)



Source: NMPED, CYFD, 2011

- Only 8 Counties have 4- or 5- Star facilities with state-funded enrollment.
- Statewide, there are 1088 slots for children at 4- or 5-Star facilities (25.6% of total capacity).

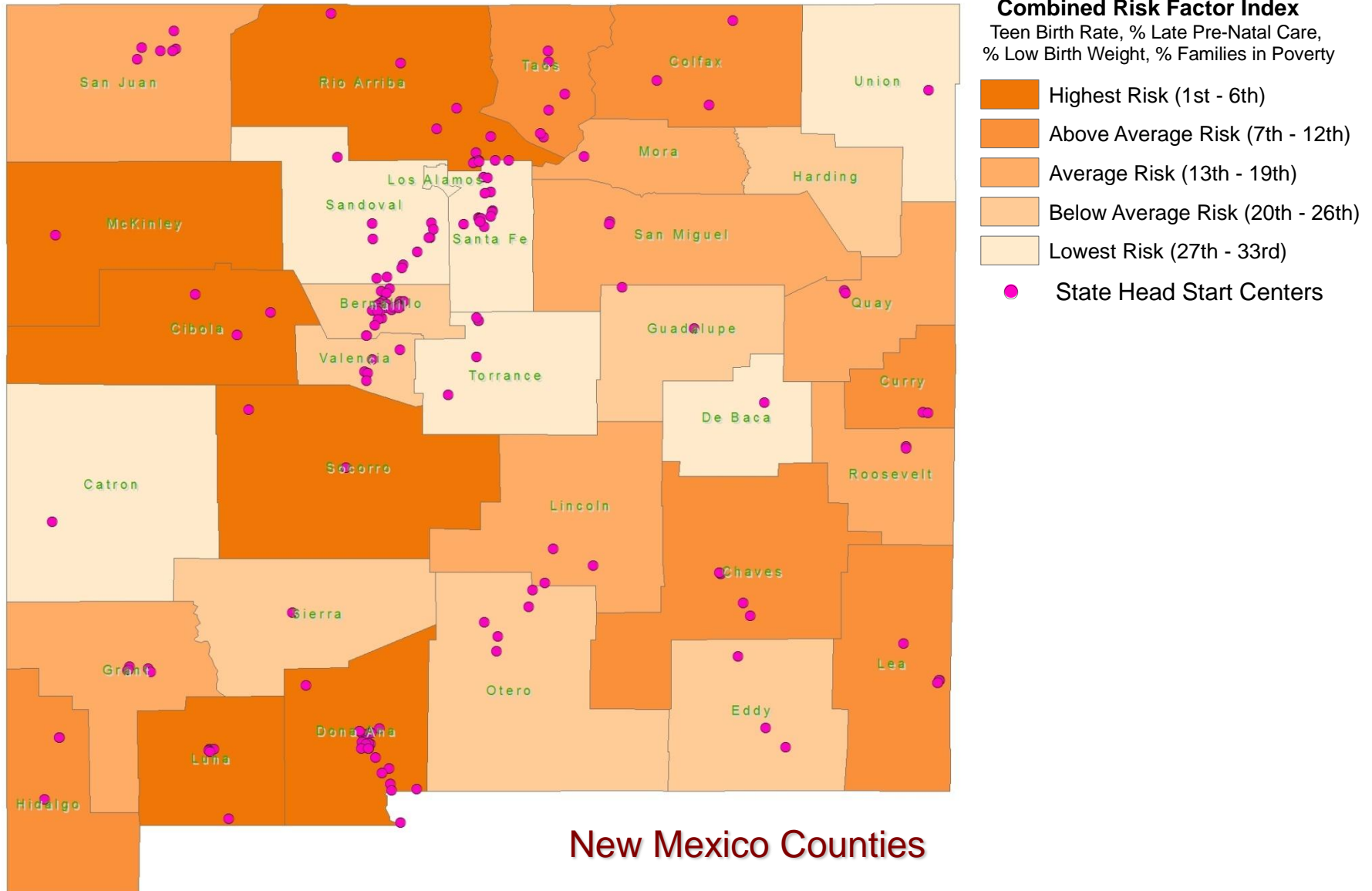
HEAD START

NM COUNTIES

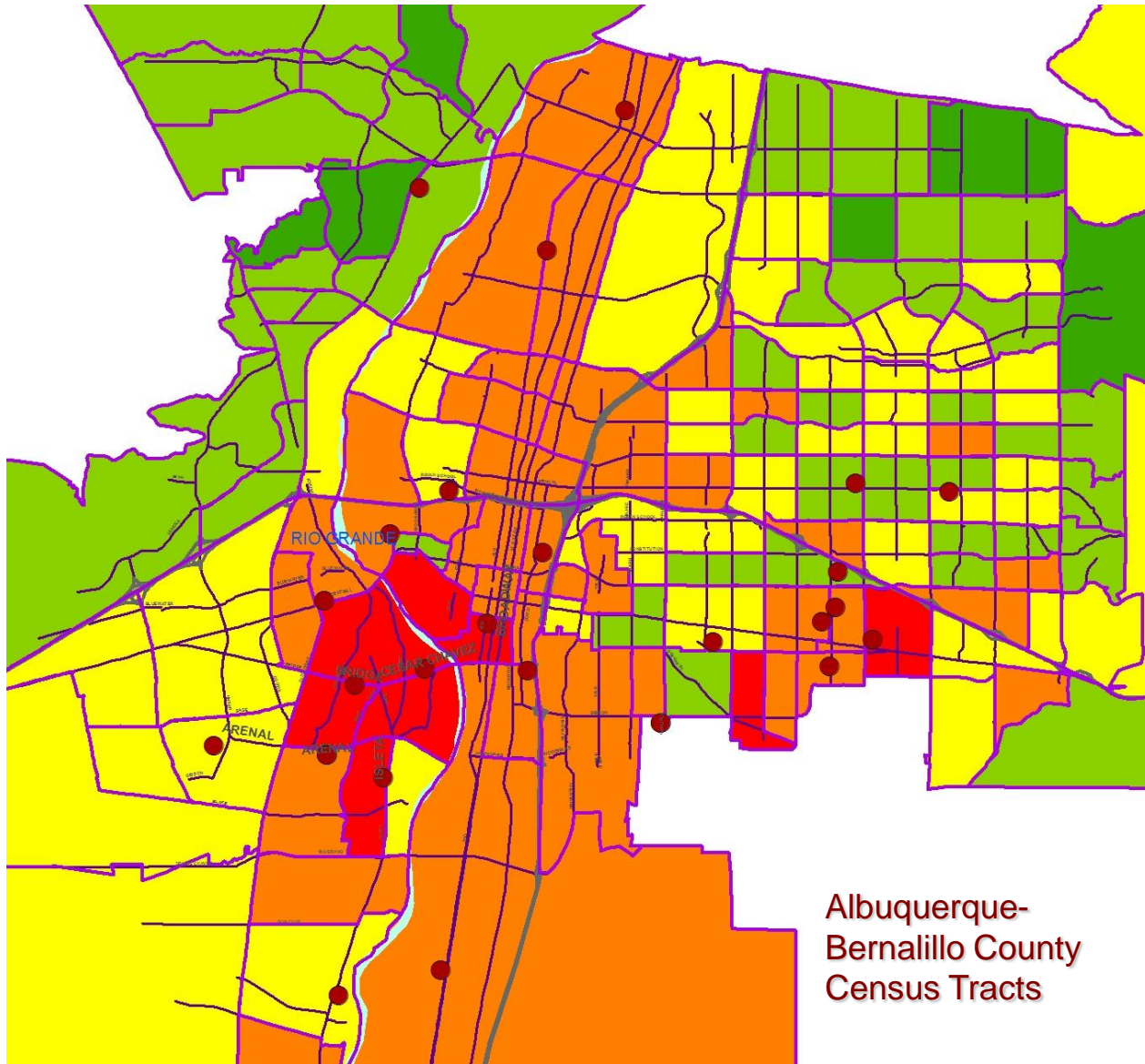
2011

NEW MEXICO COMMUNITY DATA COLLABORATIVE

Are there Head Start programs in the areas most at risk in NM counties?



Are there Head Start programs in the areas most at risk in Albuquerque?



Combined Risk Factor Index

% Teen Births, % Late Pre-Natal Care,
% Low Birth Weight, % Low Income HHs

- Lowest Risk
- Lower Risk
- Average Risk
- Higher Risk
- Highest Risk
- Head Start Centers

The Albuquerque neighborhood of highest risk (with a population of 35,000) is served by 1 high quality child care program, 1 City of Albuquerque pre-school, and 4 Head Start programs.

Albuquerque-
Bernalillo County
Census Tracts

CHILD CARE,
PRE-KINDERGARTEN AND HEAD
START

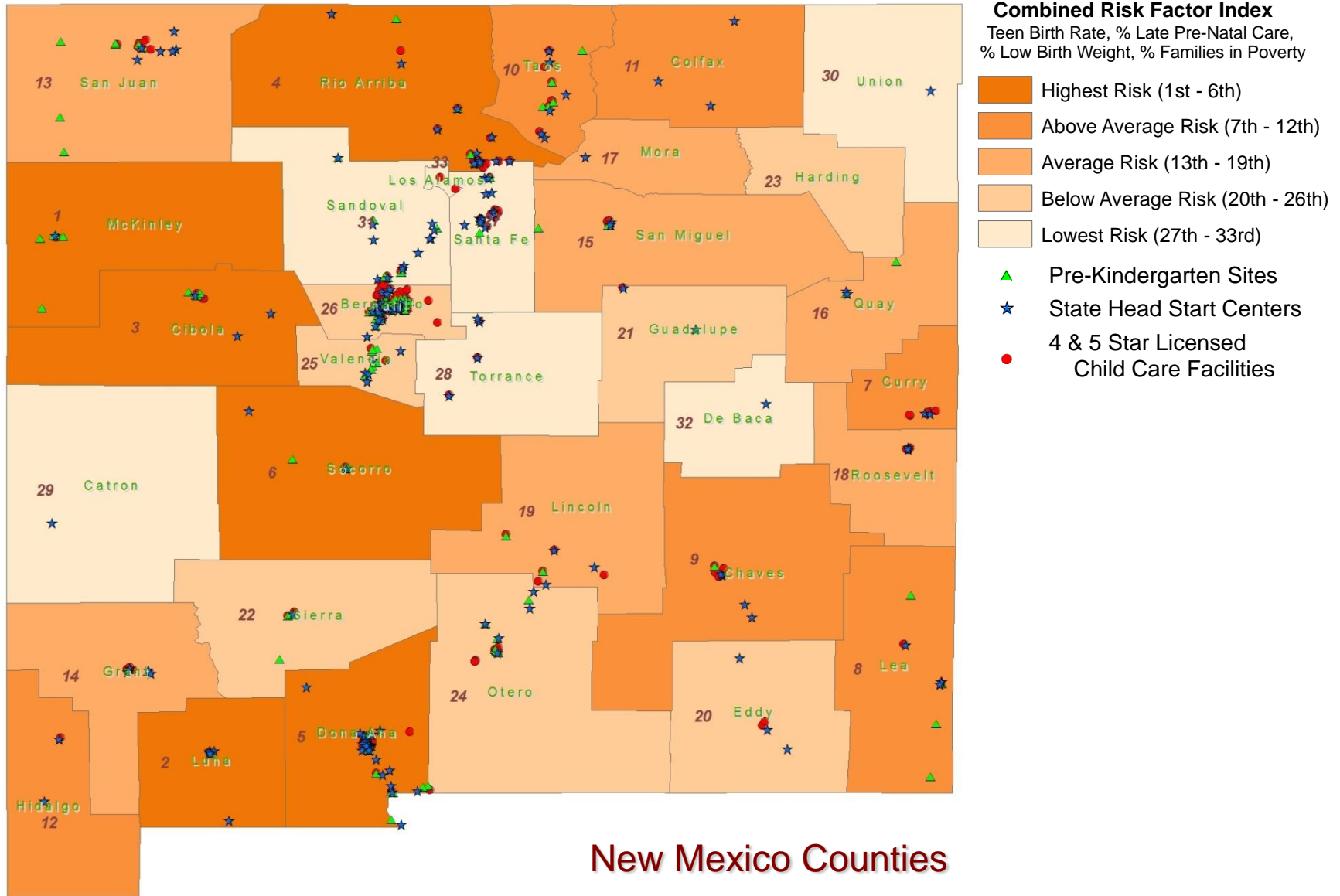
Mapping Combined Services

NM COUNTIES

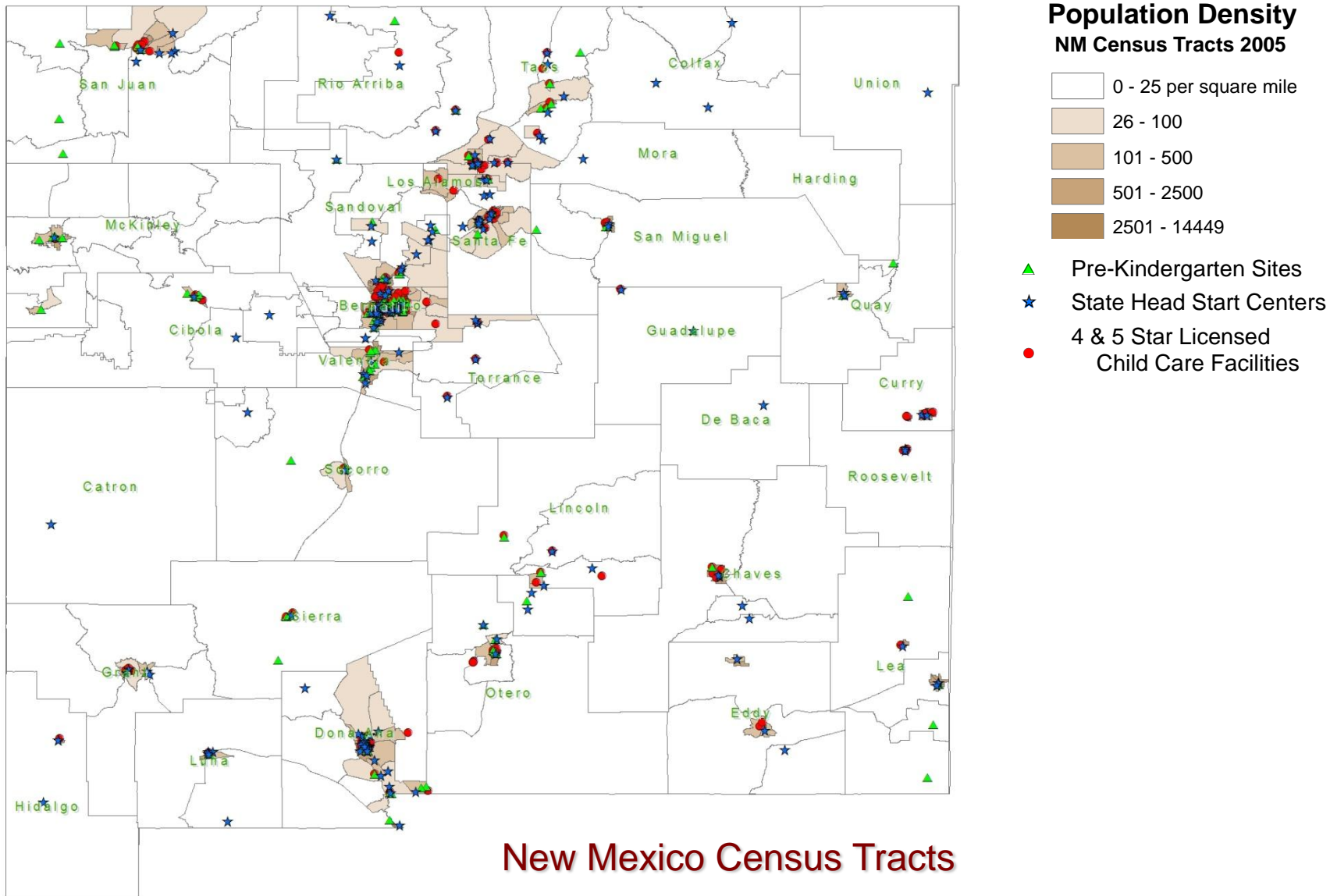
2011

NEW MEXICO COMMUNITY DATA COLLABORATIVE

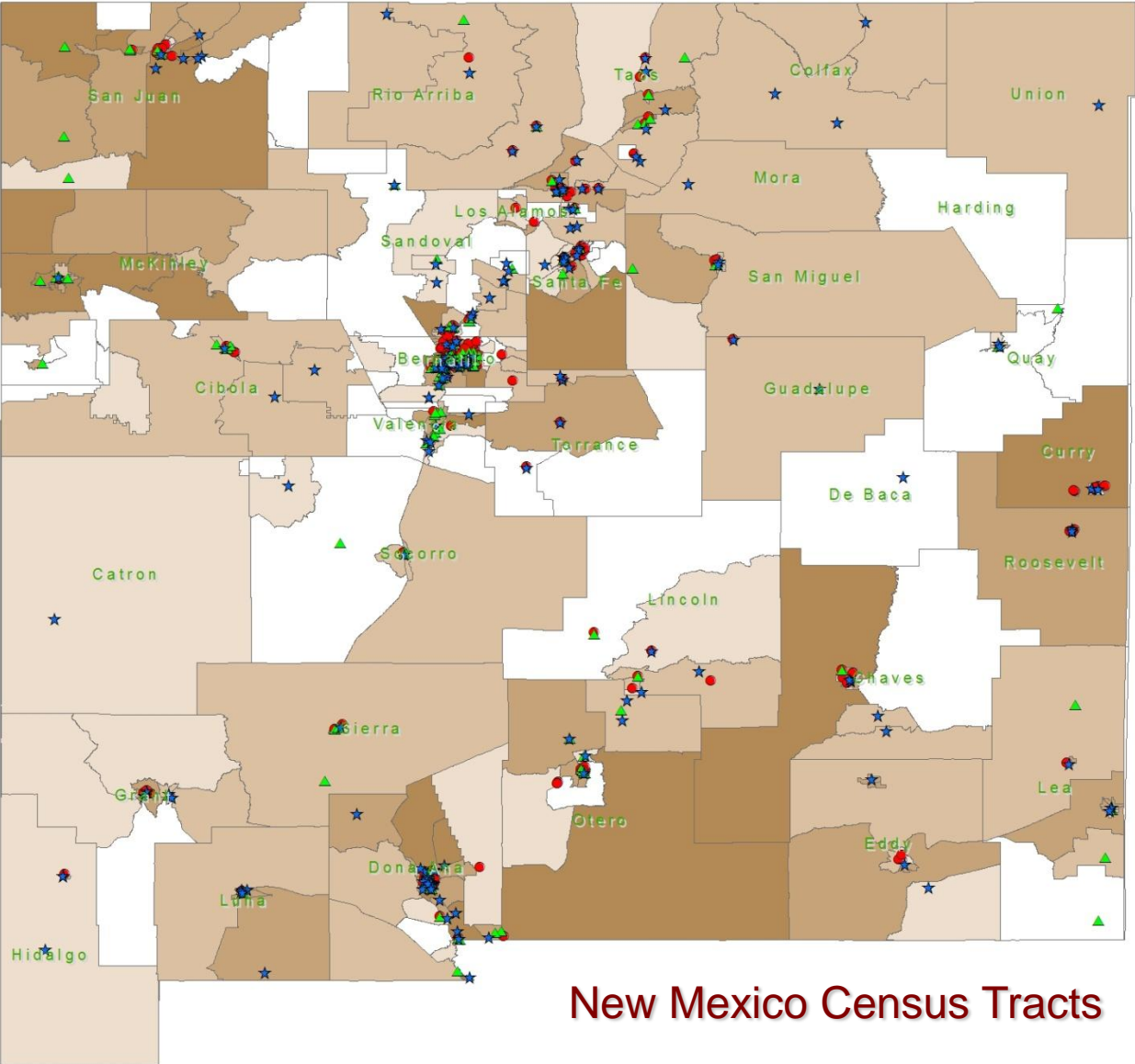
Head Start, Pre-Kindergarten and Child Care sites in New Mexico.



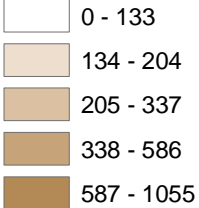
Head Start, Pre-Kindergarten and Child Care sites in New Mexico.



Head Start, Pre-Kindergarten and Child Care sites in New Mexico.



Number of Children Under 5 NM Census Tracts 2005



- ▲ Pre-Kindergarten Sites
- ★ State Head Start Centers
- 4 & 5 Star Licensed Child Care Facilities

New Mexico Census Tracts

SELECTED **OUTCOME MEASURES** RELATED TO EARLY CHILDHOOD ISSUES

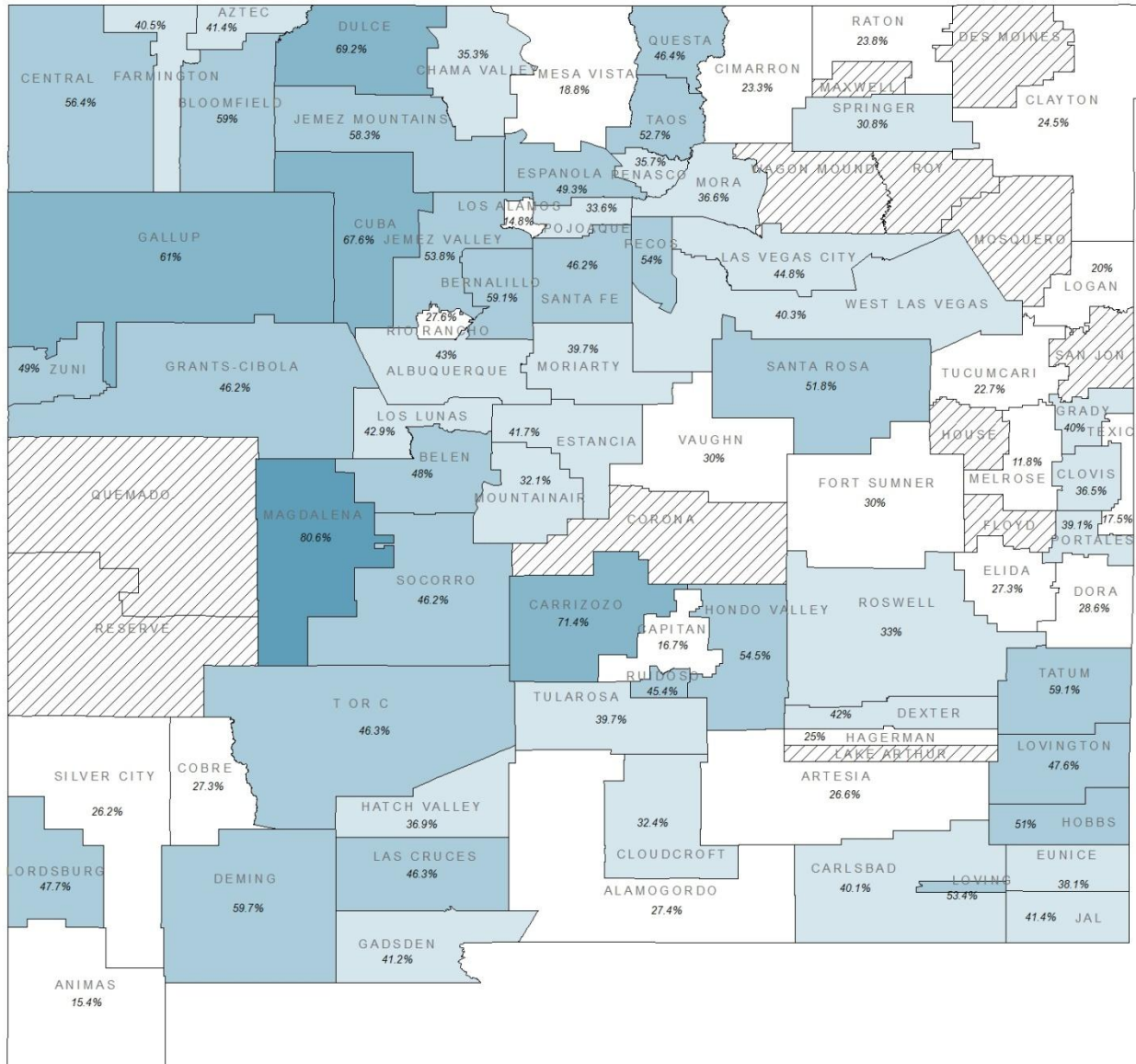
May 31, 2011

ACADEMIC ACHIEVEMENT

NM SCHOOL DISTRICTS
2010

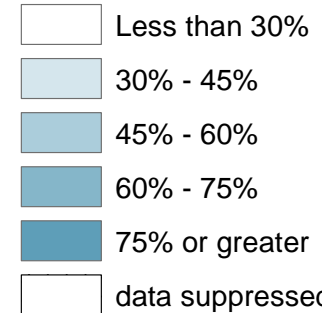
NEW MEXICO COMMUNITY DATA COLLABORATIVE

In which school districts are children having the most trouble reading?



3rd Graders Not Proficient in Reading 2009-2010

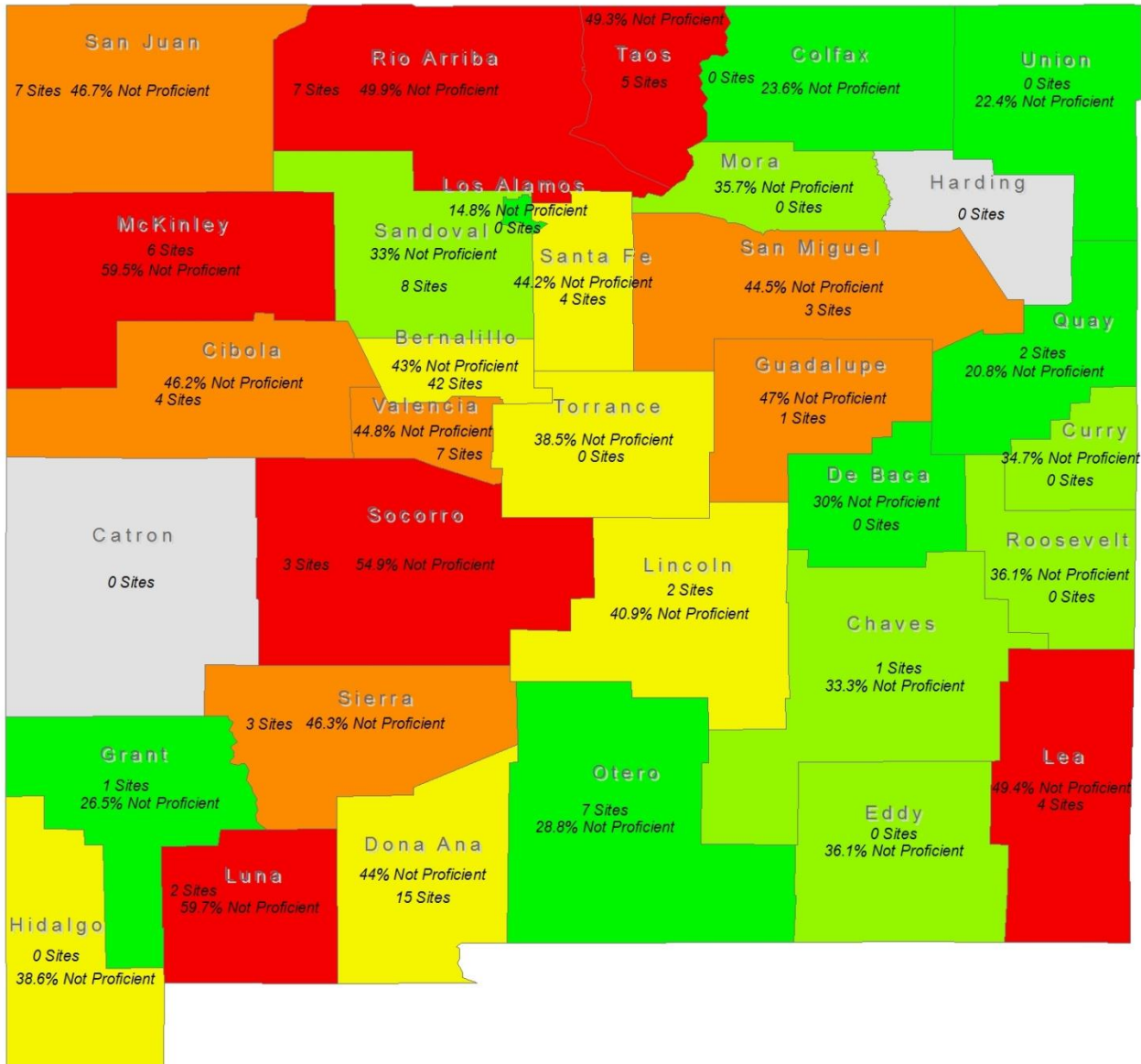
Percent



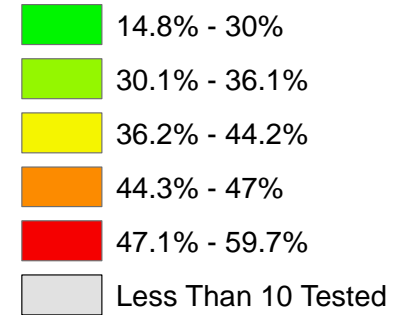
Source: NM PED

Statewide, 42.5% of 25,674 3rd graders scored below proficiency on New Mexico's Standards-Based Assessments in 2009-2010

In which *counties* are children having the most trouble reading?

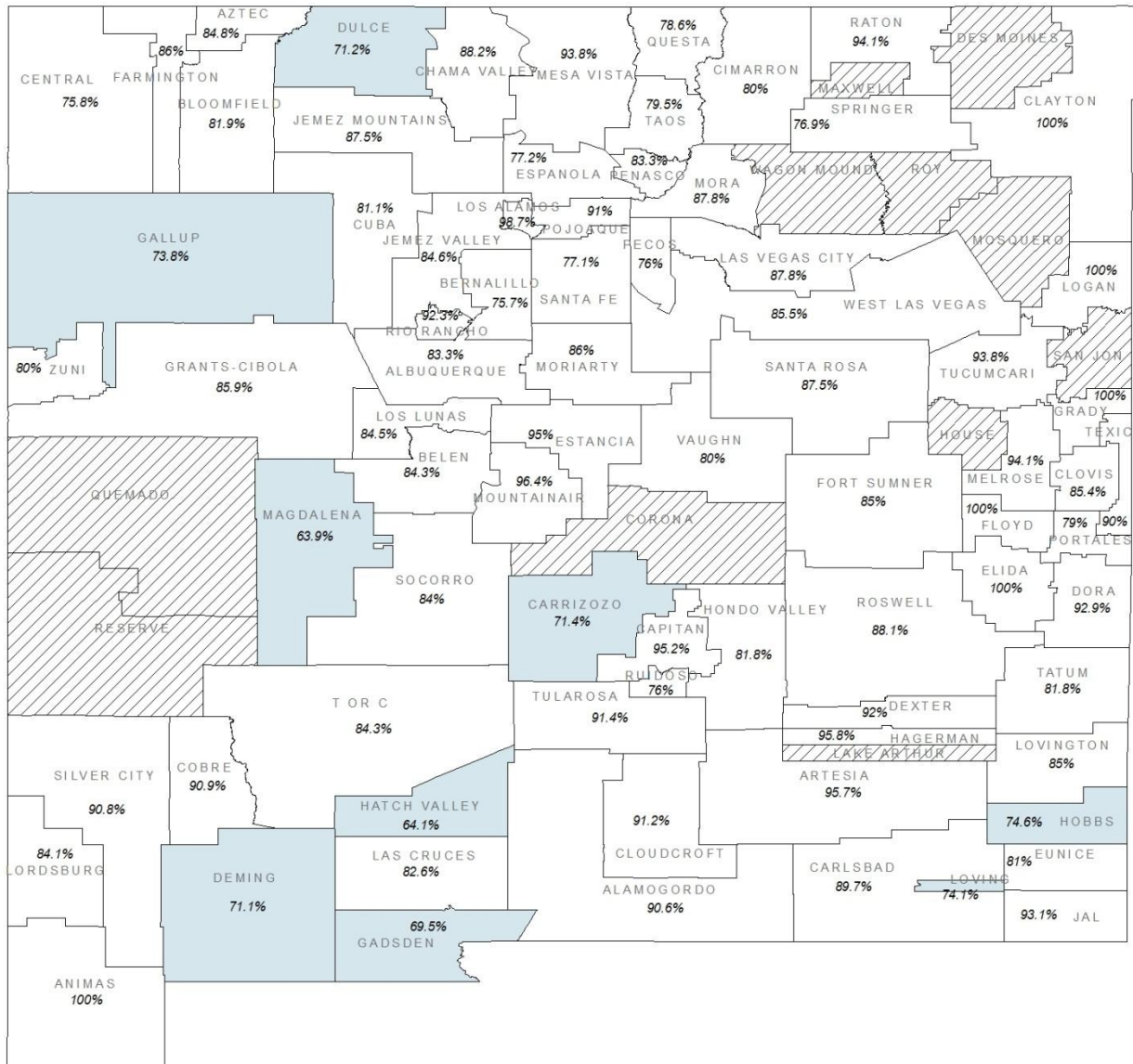


School Readiness, 2010 Percent of 3rd Graders Not Proficient In Reading

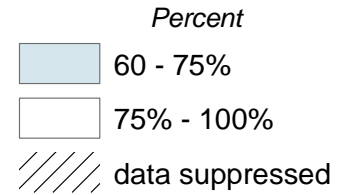


Source: NM PED

Where are the 3rd grade children who are proficient in science?



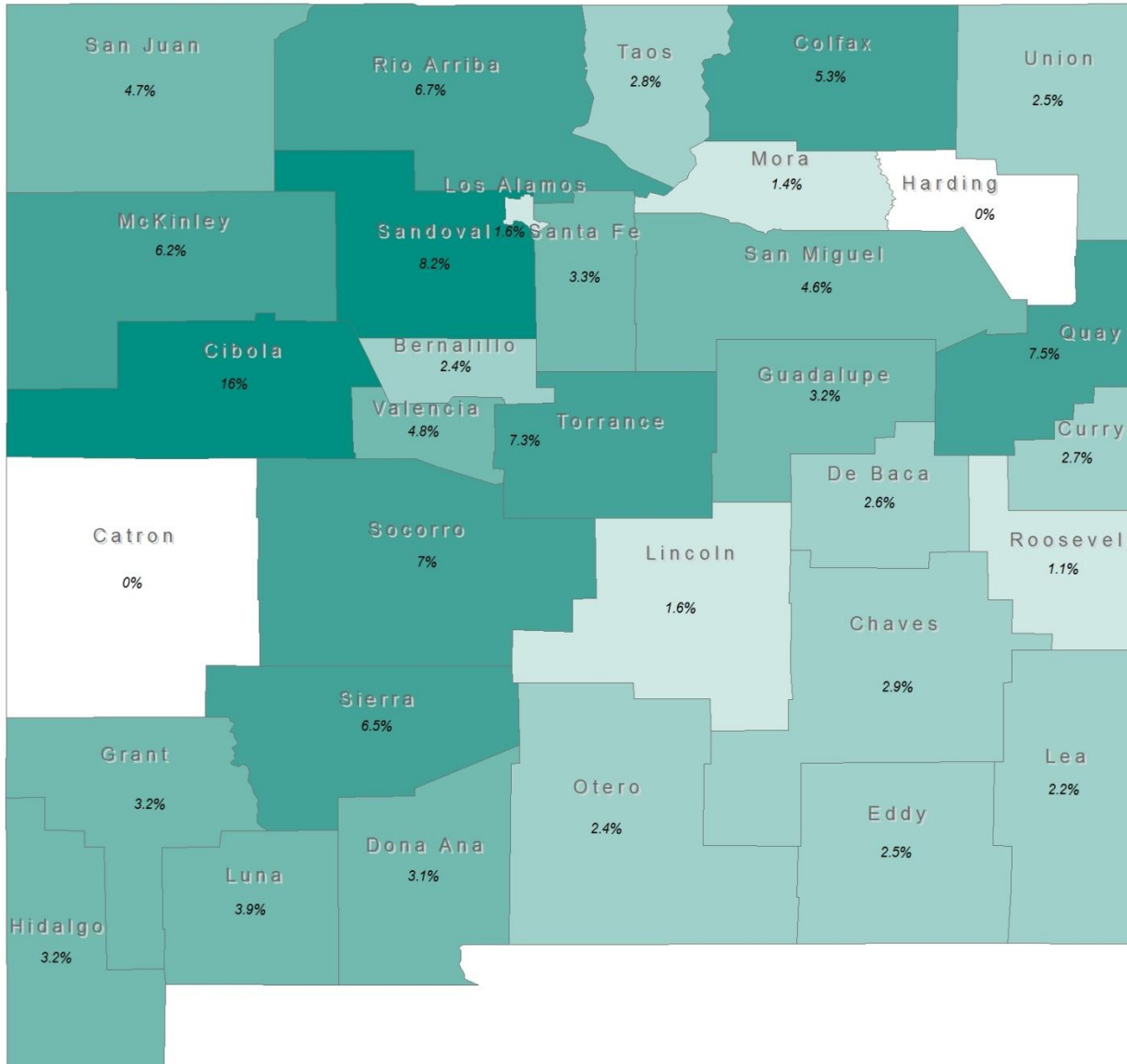
3rd Graders Proficient or Above in Science 2009-2010



Source: NM PED

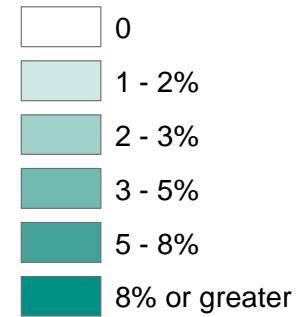
3rd graders in the majority of NM school districts demonstrate high proficiency on science assessments in 2009-2010

Which NM counties have the highest drop out rate?



High School Drop Out, 2010

Percent Students Dropping Out



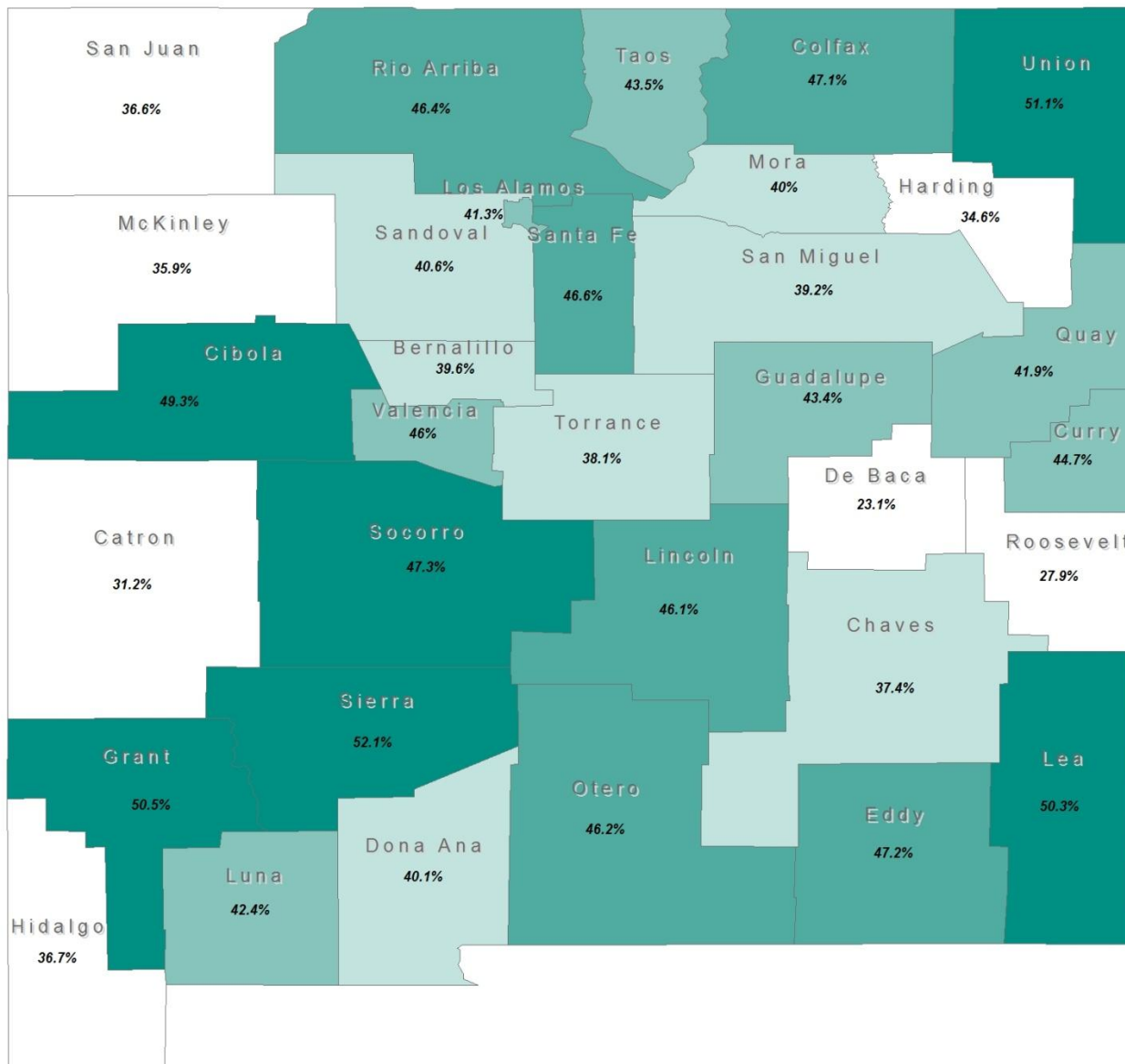
Source: NM PED

Substance Abuse (YRBS)

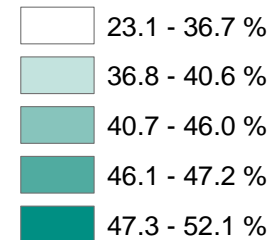
NM COUNTIES
2009

NEW MEXICO COMMUNITY DATA COLLABORATIVE

High School Students – Recent Alcohol Use



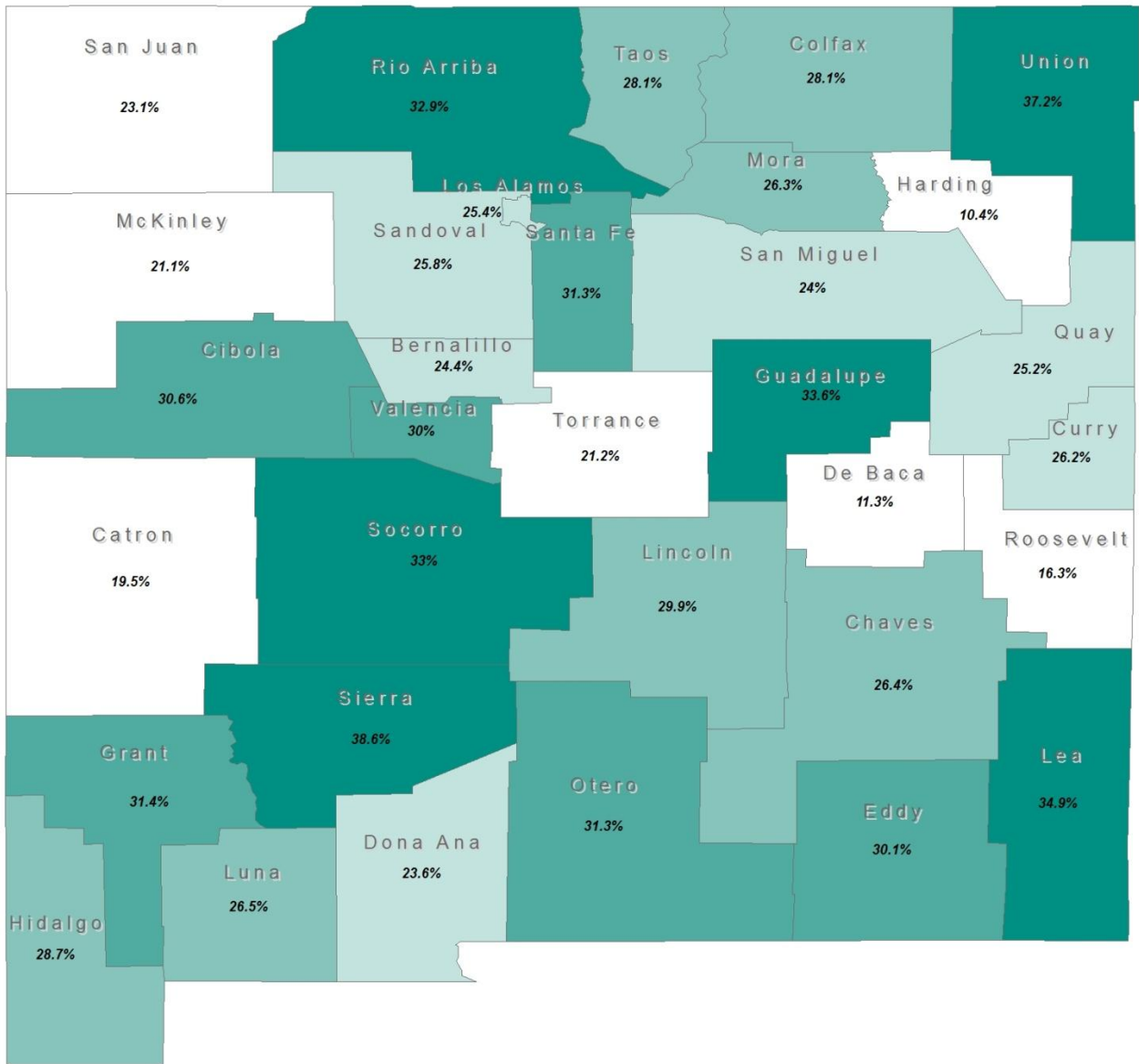
Percent of High School Students Reporting Recent Alcohol Use (2009)



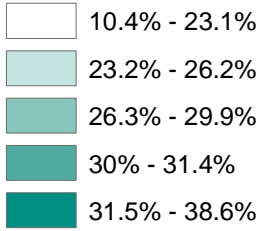
Source: NM YRBS

40.5% of NM High School students report drinking alcohol on at least one of the past 30 days.

High School Students – Recent Binge Drinking



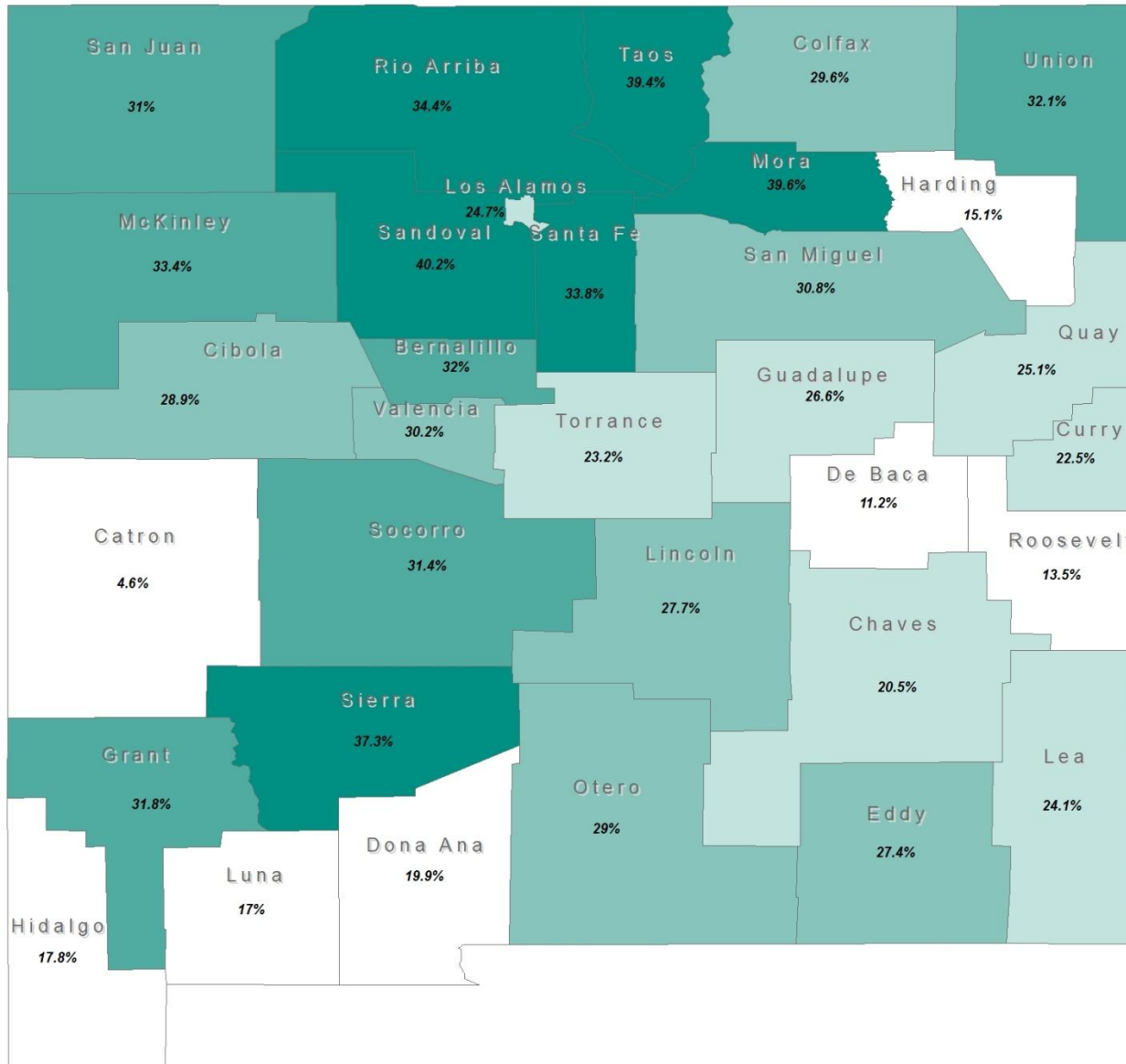
Percent of High School Students Reporting Recent Binge Drinking (2009)



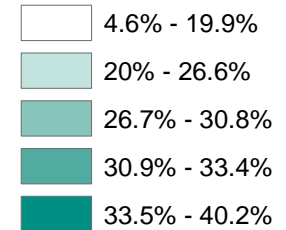
Source: NM YRBS

25% of NM High School students report drinking 5 or more alcoholic drinks in a row, or within a couple of hours, on at least one of the past 30 days.

High School Students – Recent Marijuana Use



Percent of High School Students Reporting Recent Marijuana Use (2009)



Source: NM YRBS

28% of NM High School students report using marijuana at least once in the past 30 days.

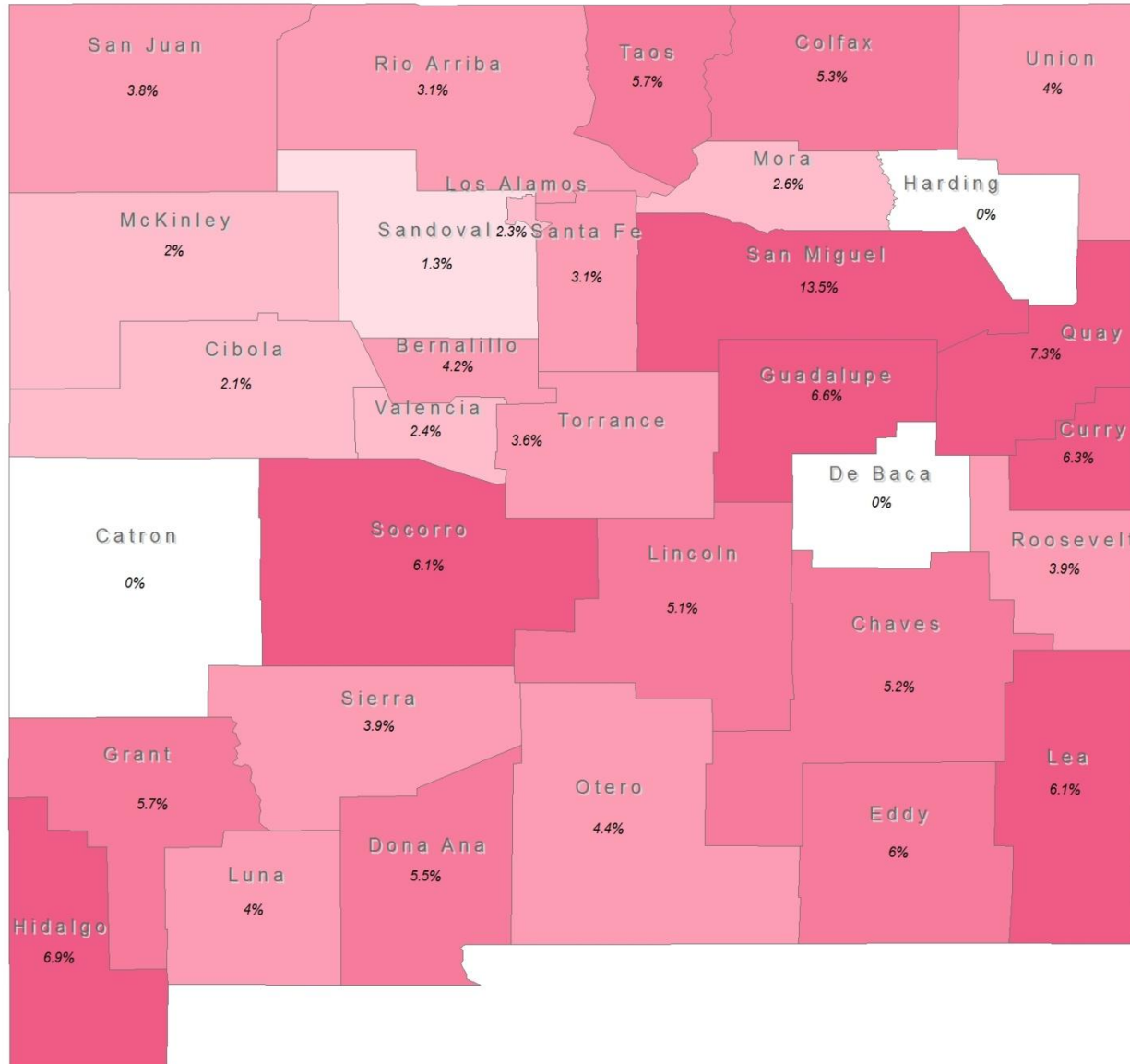
Juvenile Incarceration

NM COUNTIES

2009

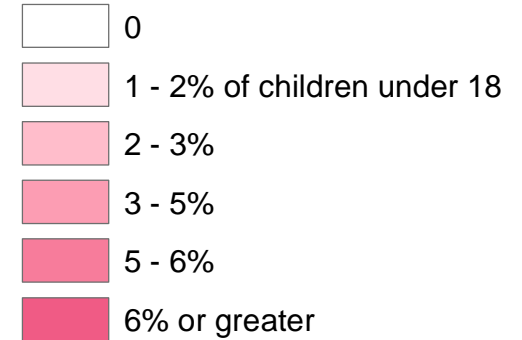
NEW MEXICO COMMUNITY DATA COLLABORATIVE

How many children are arrested in New Mexico?



Juvenile Detention, 2009

Percent Under 18 Incarcerated



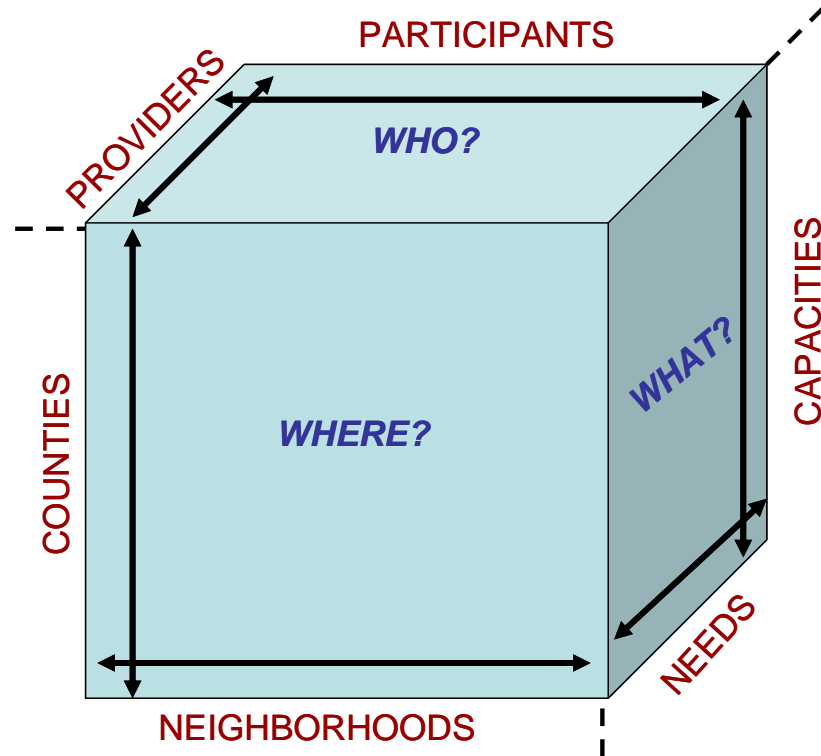
Source: CYFD

In 2009, nearly 22,000 children were arrested in New Mexico.

Next Steps . . .

SELECTED KEY DATA SETS FOR COMPREHENSIVE ASSESSMENT OF EARLY CHILDHOOD ISSUES				
New Mexico Community Data Collaborative				
TARGETED CYFD DATABASE	County		Census Tract (address)	
	Sites, Programs, Staff	Participants, Clients	Sites, Programs, Staff	Participants, Clients
Juvenile Incarceration, Custody, Probation	X	X		
Child Abuse and Neglect	X	X		
Domestic Violence	X	X		
Child Care	X	X	X	
Foster Care	X	X		
Home Visitation	X	X		
Child Care and Summer Food Programs				
Pre-Kindergarten	X	X	X	
Head Start (ages 3–5)	X	X	X	
Early Head Start (birth–age 3)	X	X	X	
TARGETED DATABASE, OTHER AGENCY				
Early Childhood Special Education (ages 3–5)	X	X		
Early Intervention / FIT (DOH)				
Foodstamp Enrollment (HSD)	X	X	X	X
Medicaid Enrollment (HSD)	X	X	X	X
Health Outcomes, Children (DOH)	X	X	X	X
Health Outcomes, Families (DOH)	X	X	X	X
Demographics, Children (US CENSUS)	X	X	X	X
Demographics, Families (US CENSUS)	X	X	X	X
Neighborhood Social Characteristics (Multiple Sources)	X	X	X	X
School Characteristics:			(School Level)	
Standard Based Assessment by school & grade	X		X	
Obesity by School and Grade (APS only)	X	X	X	X
Risk and Resiliency Factors (Mid and High School)	X		X	
<i>-T. Schamen, NMDOH</i>			<i>X = Acquired, Analyzed and Mapped</i>	

COMMUNITY ASSESSMENT 3-DIMENSIONAL MEASUREMENT



THANK YOU

to the many kind collaborators in state agencies, at UNM, and in the non-profit organizations and coalitions that have made early childhood a priority.

PLEASE CONTACT US

If you would like access to the aggregate databases upon which these maps are based, or if you would like to plan an interactive session to explore these data further.

Thomas N. Scharmen, MA, MPH, Epidemiologist

Kathryn Chinn, BS

Regions 1 & 3, Office of Community Assessment, Planning and Evaluation

Public Health Division, New Mexico Department of Health

North Valley Public Health Office

7704-A 2nd St, NW Albuquerque, NM 87107

Telephone: 897-5700 ext 126; Fax: 897-1010

E-mail: thomas.scharmen@state.nm.us