Outline

Population Estimates

- Background
- 2019 Estimates
- Statewide Trends

Population Projections

- Background
- 2020 Projections
Population Estimates

*Observations* about current or past populations

Inexpensive updates to costly census counts

Methods are well-established with known biases

Produced by the US Census Bureau, state and local agencies and private sector
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<th>US Census Bureau</th>
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Cohort-Component

\[ Pop_{2017} = Pop_{2010} + \text{Births} - \text{Deaths} + \text{In Migration} - \text{Out Migration} \]

Housing Unit

Ratio Correlation

Cohort Change Ratios

GPS Estimates Methodologies
Population Estimates

Key Input Data

NM DOH VITAL RECORDS
NM MVD DRIVER’S LICENSES
NM PED SCHOOL ENROLLMENT
NM SOS VOTER REGISTRATIONS

CMS MEDICARE ENROLLMENT
IRS MIGRATION FILES
RESIDENTIAL BUILDING PERMITS
GPS Estimates
Methodology

Key Steps
1. State Total
2. County Totals
3. Census Tract Totals
4. Characteristics
   Age/Sex/Race/Ethnicity
5. Data Fitting
Factors Influencing Uncertainty and Error in Estimates

- Smaller populations
- Further from the Last Census
- Underrepresented Populations
- On Tribal Lands
- As Populations Change
New Mexico
Population Estimates 2010-2019

Eight Year Growth = 2.11%
2017-2018 Growth = 0.04%

Source: UNM Geospatial and Population Studies (gps.unm.edu)
Why Flat Growth?

- Births are Down
- Deaths are Up
- Migration is Out
Fertility Rate: United States, 1909-2016

Note: Fertility rate is number of births per 1,000 women 15-44 years of age. Data prior to 1960 have been adjusted by the U.S. Census Bureau for under-registration. Data for census years (starting with 1940) are based on population enumeration as of April 1 whereas enumeration for all other years is as of July 1. Data for 1951-1954 and 1956-1971 are based off a 50% sample of births. Data 1972-1984, some states reporting are based off a 50% sample of births.

Declining Fertility
Mortality

- Total deaths increasing due to aging population
- Mortality rates also increasing slightly
- People are less likely to live long lives if they are poor, get little exercise or lack access to healthcare (Dwyer-Lindgren, Bertozzi-Villa, Stubbs, et al., 2017).
Births, Deaths, and Natural Increase in New Mexico 2001-2018

Source: New Mexico Department of Health - ibis.health.state.nm.us
NM State Total Vs. Natural Increase 2010-2018

8 year out-migration = 6,190 or 0.30%
Approximate Net Migration 2002-2018
Population Change by County 2010-2018

Note: Counties are listed from largest to smallest.
Source: UNM Geospatial and Population Studies (gps.unm.edu)
NM Racial Composition 2019

- % AIAN: 10.7% (2010) vs 9.1% (2019)
- %API: 1.9% (2010) vs 1.8% (2019)
- %Black: 2.8% (2010) vs 2.3% (2019)
- %Hispanic White: 43.3% (2010) vs 49.3% (2019)
- %NH White: 41.3% (2010) vs 37.6% (2019)
Nine Year Growth By Age

-10.0%  -5.0%  0.0%  5.0%  10.0%  15.0%  20.0%  25.0%  30.0%  35.0%  40.0%

0-17  18-64  65+
Aging Population

K-8 SCHOOL ENROLLMENT

MEDICARE ENROLLMENT
Population Projections: Cohort Component Method

Population Size and Age Structure

Fertility Trends

Mortality Trends

Migration Trends

\[ \text{Pop}_{n+x} = \text{Pop}_n + \text{Births} - \text{Deaths} + \text{Net Migration} \]
Changing Age Structure

New Mexico 2010 (shaded) & New Mexico 2019

- Males
- Females

Numbers

- 0-4
- 5-9
- 10-14
- 15-19
- 20-24
- 25-29
- 30-34
- 35-39
- 40-44
- 45-49
- 50-54
- 55-59
- 60-64
- 65-69
- 70-74
- 75-79
- 80-84
Changing Age Structure

New Mexico 2010 (shaded) & New Mexico 2019

Numbers

- Males
- Females

Age Groups:
- 0-4
- 5-9
- 10-14
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- 40-44
- 45-49
- 50-54
- 55-59
- 60-64
- 65-69
- 70-74
- 75-79
- 80-84

Counts:
- 100000
- 80000
- 60000
- 40000
- 20000
- 0

Comparison years:
- 2010
- 2019
**Fertility**

*Will fertility continue to decline as it has been? Will it begin to rise, or will it remain stable?*

- **Assumption:** Fertility will continue to decline for Hispanic women, bringing the overall state fertility rate down to the current rate for non-Hispanic women.

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**Mortality**

*Life expectancy has increased for much of the past century but has been fairly stable in recent years.*

- *Will we continue to live longer, or will poorer health behaviors lead to shorter lives?*
- **Assumption:** Mortality will remain at current rates.

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**Migration**

*Assumption:* Migration from 2020-2040 will gradually increase until it reaches the average of migration patterns observed in the 2000s and the 2010s, thus allowing for periods of higher migration and lower migration.
Projected Growth Rate for New Mexico
Changing Age Structure

New Mexico 2010 (shaded) & New Mexico 2040

Numbers

Males

Females
Factors that could alter our trajectory

- Increase in fertility among residents (not particularly realistic)
- Reduce out migration of young people
- Attract young people to the state

Increased births due to more people of childbearing age
Questions or Comments???

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