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Colonia Population Estimation

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Colonia Population Estimation

Data Users Conference

2012 November 15

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MSC06 3510
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Albuquerque NM, 87131-0001
• How do we count colonia populations?

• How do we estimate the socioeconomic and housing characteristics of colonia populations?
### 2010 Census Data
- Conducted on every person
- Conducted every 10 years
- Reported at the Block level
- Limited number of questions
  - ‘Short form’
  - Population counts
  - Basic demographic data

### 2006-2010 American Community Survey 5-Year Estimates
- Conducted on a 1 in 6 sample
- Conducted every year
- Reported at the Block Group level
- Greater number of questions
  - ‘Long form’
  - Population counts
  - Detailed demographic, economic, and housing estimates
  - Margin of Error
### 2010 Census Data

- **Population Data**
  - Total population counts
  - Number of households
  - Population living in households

- **Housing Data**
  - Total housing unit counts
  - Vacancy status
  - Tenure

### 2006-2010 American Community Survey 5-Year Estimates

- **Population Estimates**
  - Median household income
  - Ratio of income to poverty
  - Poverty status of persons

- **Detailed Housing Estimates**
  - Units in structure
  - Year structure built
  - House heating fuel
COLONIA

POPULATION

ESTIMATION

PROCESS

Define

Locate

Overlay Census Blocks

Select Blocks that Capture the Colonia

Tabulate Block Population
Many Colonia Definitions

- U.S. Department of Housing and Urban Development
- U.S. Environmental Protection Agency
- U.S. Department of Agriculture Rural Development
- Common usage, i.e. Pajarito Mesa
U.S. Department of Housing and Urban Development

- Must be in Arizona, California, New Mexico, or Texas
- Must be within 150 mile of the U.S.-Mexico border
- Must not be within a metropolitan statistical area with a population greater than 1 million
- Must lack:
  - Potable water supply
  - Adequate sewage system
  - Decent, safe, and sanitary housing
- Must have existed before 1990 November
HUD Colonia Definition
County Name (Number of Colonias)

Locate
Colonia Locations
NMSU Study
### Pie Town
#### Total Population

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<th>Candidate Colonia Blocks</th>
<th>Total Population</th>
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<td><strong>Total</strong></td>
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COLONIA

SOCIOECONOMIC

AND

HOUSING

CHARACTERISTIC

ESTIMATION

PROCESS

Select Block Groups

Tabulate Block Group Population

Determine Reliability
### Pie Town

**Total Housing Units**

<table>
<thead>
<tr>
<th>Colonia Name</th>
<th>Pie Town</th>
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<tbody>
<tr>
<td>Block Population</td>
<td>44</td>
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<tr>
<td>Block Group</td>
<td>Catron Co., CT9764, BG1</td>
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<tr>
<td>Block Group Population</td>
<td>1,923</td>
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<td>% Block Population of Block Group Population</td>
<td>2%</td>
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<tr>
<td>Total Housing Units</td>
<td>1,701</td>
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Limitations:

- Population counts are only as accurate as census counts.
- Colonias may neighbor each other, but their extents cannot be delineated through aerial photography.
- The colonia may be incorporated or a Census Designate Place and the method may produce different data and/or estimates.
- Reliability of colonia socioeconomic and housing characteristics varies greatly.
Useful links

- http://www.hud.gov/local/nm/groups/coloniasnm.cfm
- http://nmdfa.state.nm.us/Local_Government.aspx
- http://donaanacounty.org/health/colonias/
- http://bber.unm.edu/colonias.htm

Thank you.