

# Weatherization Program 2016 - 2017

MFA Legislative Oversight Committee

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Presenters:

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# Overview

- Reasons for weatherization
- Waiting lists and required units
- Average savings per household
- Gallons of water saved
- Furnaces replaced
- Ventilation Fans
- What is changing?

# Weatherization is....

- A U.S. Department of Energy (DOE) funded program that **reduces energy costs** for low-income families, particularly for the elderly, people with disabilities and children, by improving the energy efficiency of their homes while ensuring their **health and safety**.

# NM Energy\$mart

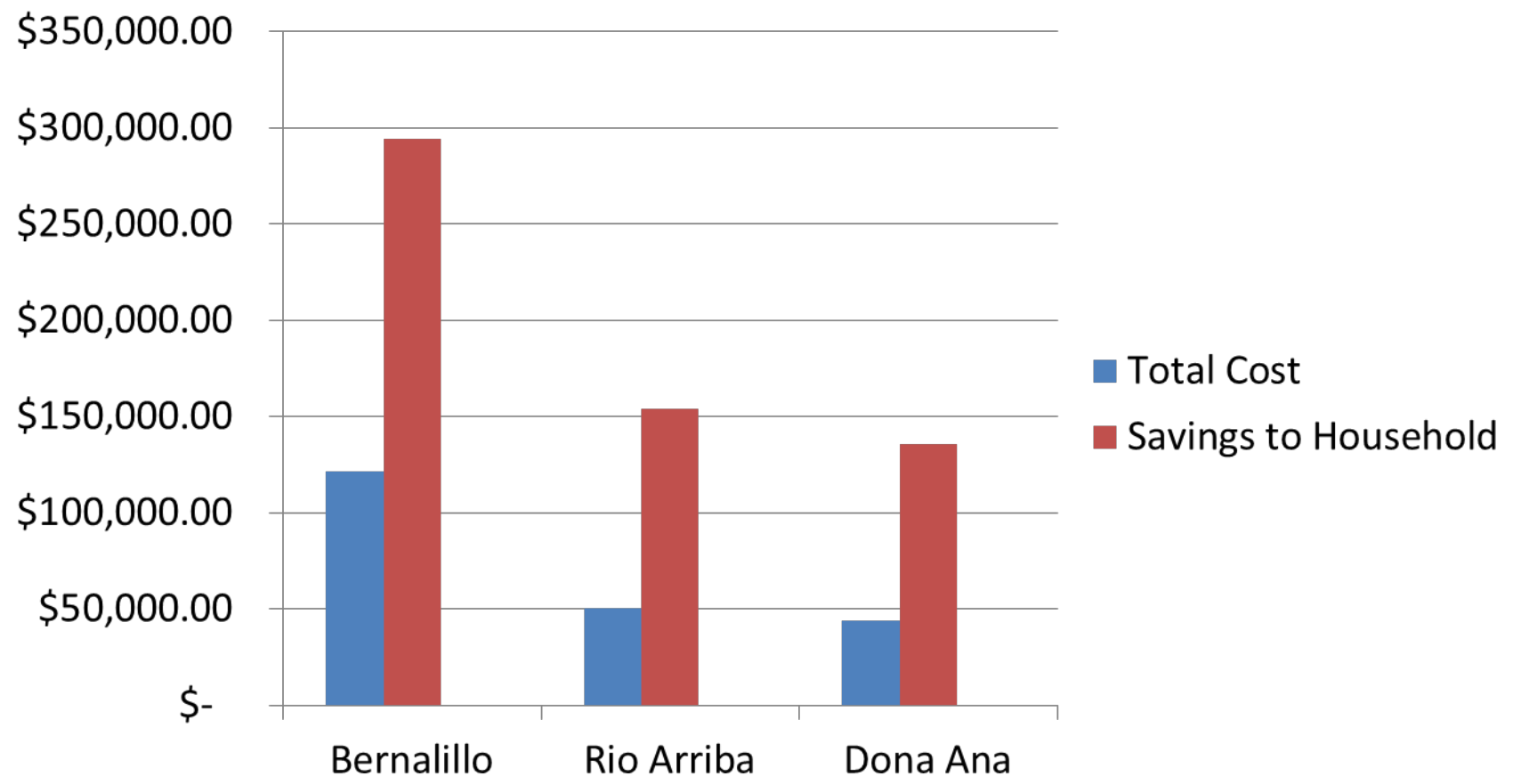
- Combines DOE funding with multiple funding sources to maximize the help available to New Mexico households.
- Total funding 2016 – 2017: \$5,074,569
  - DOE
  - LIHEAP
  - NM Gas
  - PNM
  - Xcel
  - Central Valley Electric Co-Op

# Why is weatherization beneficial?

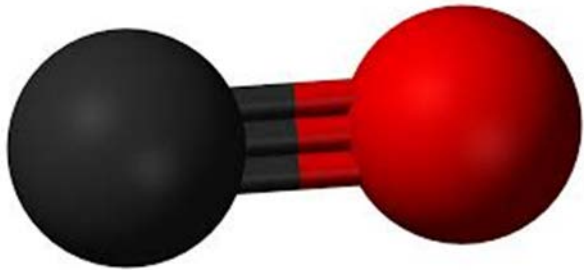
- Reduces utility bills to New Mexico households in need
- Improves the health and safety conditions
- Lowers total energy usage
- Rely less on foreign energy sources



# Energy Bill Reduction – savings vs. cost for a combination of refrigerators, insulation and duct sealing



Improves health and safety by eliminating hazards such as carbon monoxide, unvented space heaters and moisture issues



# Lowers total energy usage and decreases pollution





# Less reliance on foreign energy sources



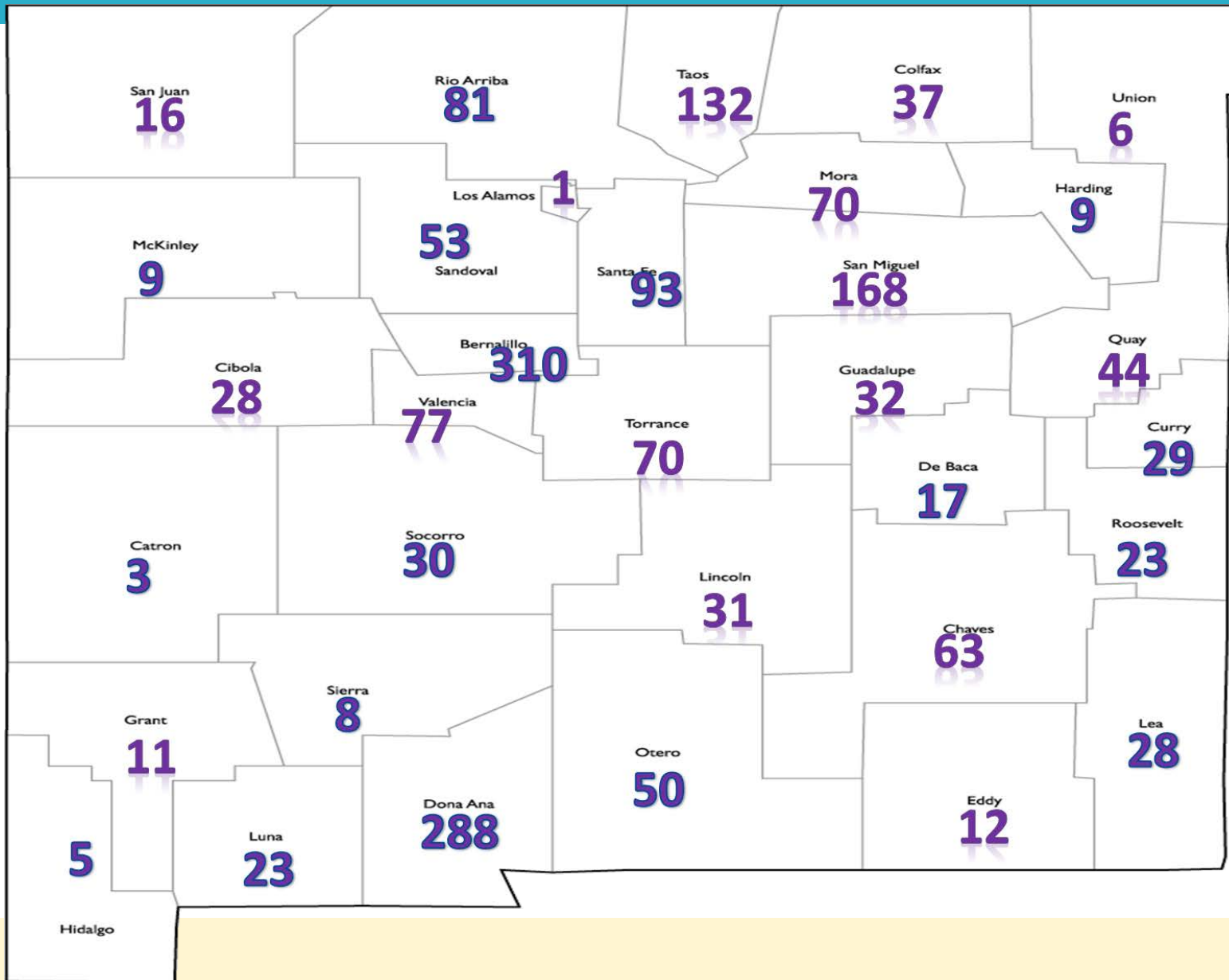
# The Durability Factor

- Durability is increased by:
  - Keeping moisture on the warm side of a surface
  - Eliminating air and vapor travel through cavities
  - Keeping appliances in good working condition
  - Occupants having a sense of dignity about the home in which they reside

# Waiting Lists by County

- History of program awareness
- Order depends on ranking system
  - 10 CFR 440 lists what can be used to rank households with:
    - Disabilities
    - Children
    - Elderly
    - High energy usage

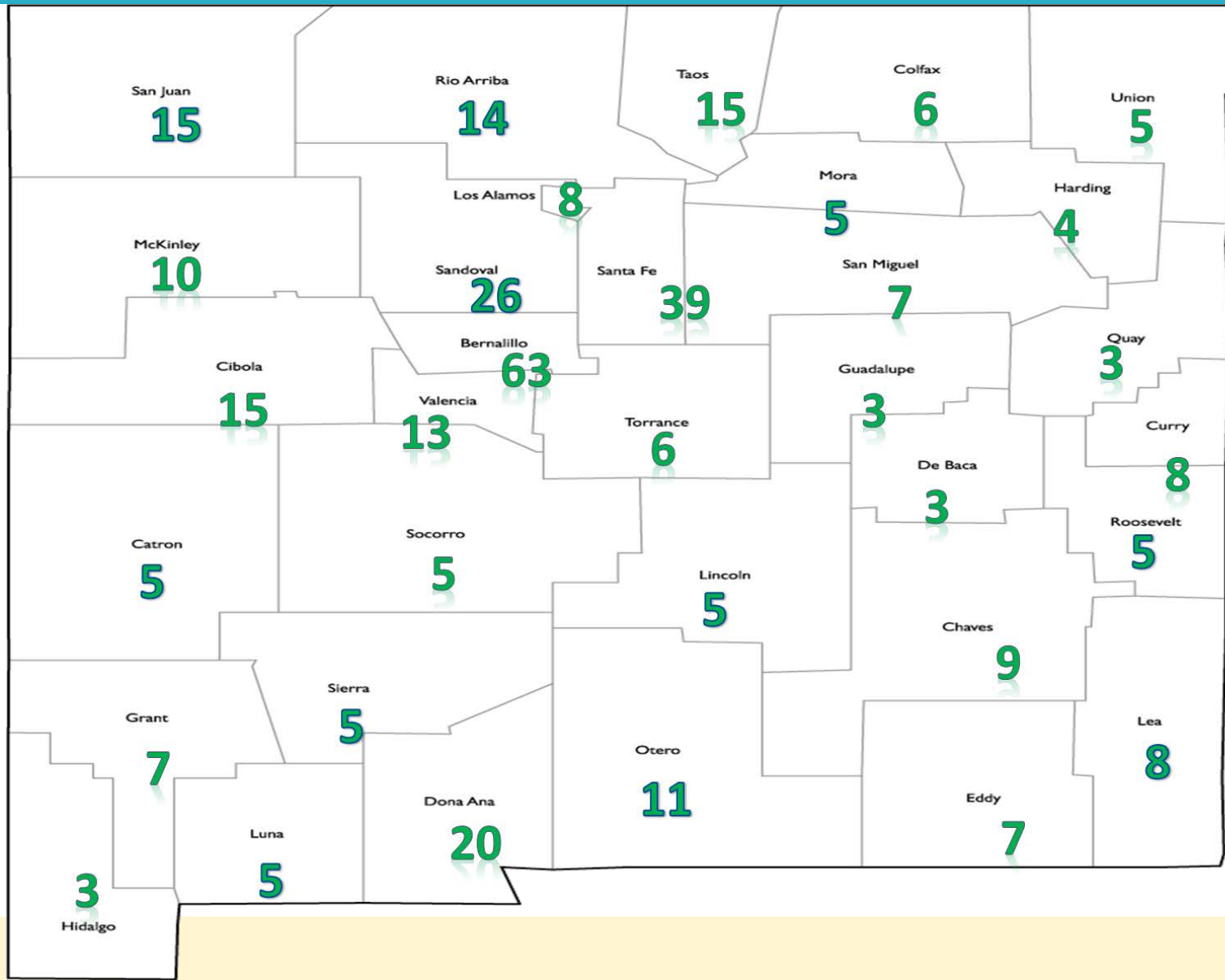
# Waiting Lists by County



# Available Units by County

- Dependent on funding levels and allocation formulas
- Allocation formulas take into consideration a number of factors including levels of poverty, disabled, elderly, children, heating degree days, and total population in each county.
- A per unit average of \$6,000 has been used for the formulas
- Available units may decrease if federal funding is not fully allocated to the program this year. The total number of units for July 2017 through June 2018 is estimated using a percentage of last year's numbers and funding that has been released for the remainder of the fiscal year only.

# Funding Allowed Units by County 2017-2018



# Need vs. Available Funding

Current households on waiting list

1857

Number of households that can be served  
with available funding

368

# Average Annual Dollars Saved for New Mexico Residents

- Estimated by energy modeling software
- Some measures have deemed savings
- Fuel source determines value

**\$251**



# Annual Gallons of Water Saved

- 1.5 showerheads and 1.0 aerators
- Existing fixture rating
- Average number of occupants per household
- Total units retrofitted
- Continues to add up over time

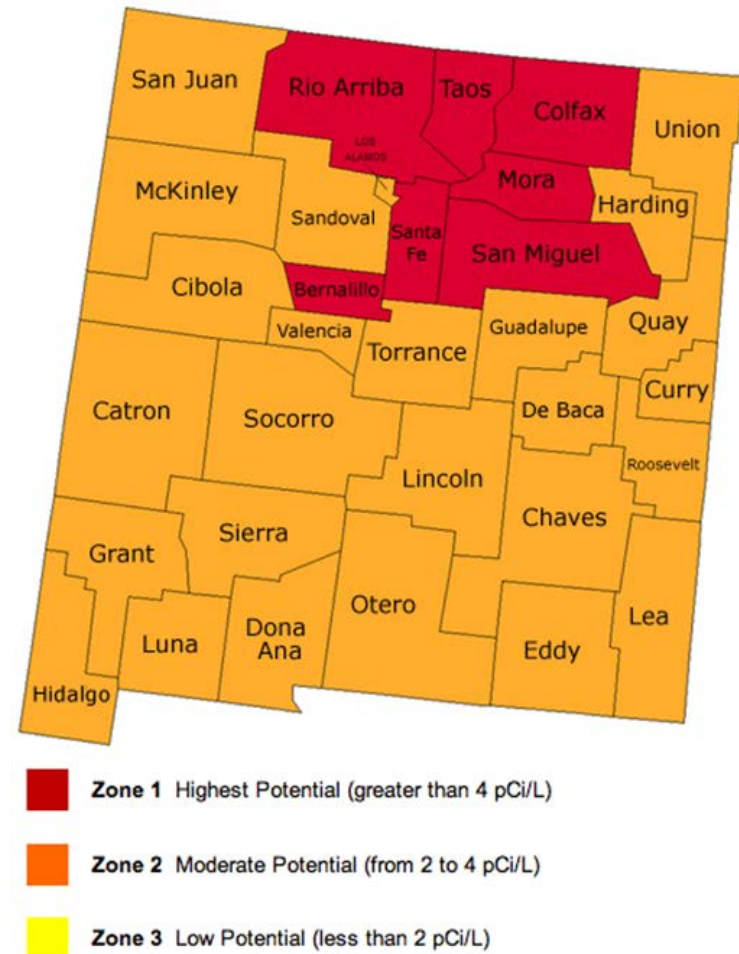
**11,148,195**

# Furnace/Heating System Replacement

- Replacement is cost effective
- Old unit is unsafe
- Old unit is inoperable
- 455 furnace/heater replacements from July 2016 to June 2017

# Ventilation Fans and Radon

- [http://weatherization.ornl.gov/Retropectivepdfs/ORNLTMLTM-2014\\_367.pdf](http://weatherization.ornl.gov/Retropectivepdfs/ORNLTMLTM-2014_367.pdf)
  - 12 percent radon reduction
- New Mexico has installed over 500 ventilation fans with this program



# Trends in how the program is changing

## 1970s

- Blindly sealing air drafts
- Sometimes insulation
- No appliance replacement
- Little to no client education
- One funding source

## Now

- Test driven weatherization
- As much insulation as possible
- Health and safety appliance replacement
- High emphasis on client education
- Multiple leveraging funding sources

# Nationally recognized success

- New Mexico is asked to present program at national conferences
- NM EnergySmart Academy
  - Funded during American Recovery and Investment Act
  - Not only still existing but thriving by training other states