



# **Climate and Community Energy Use: Morris, Minnesota**

Shalini Gupta, Executive Director  
Center for Earth, Energy and Democracy

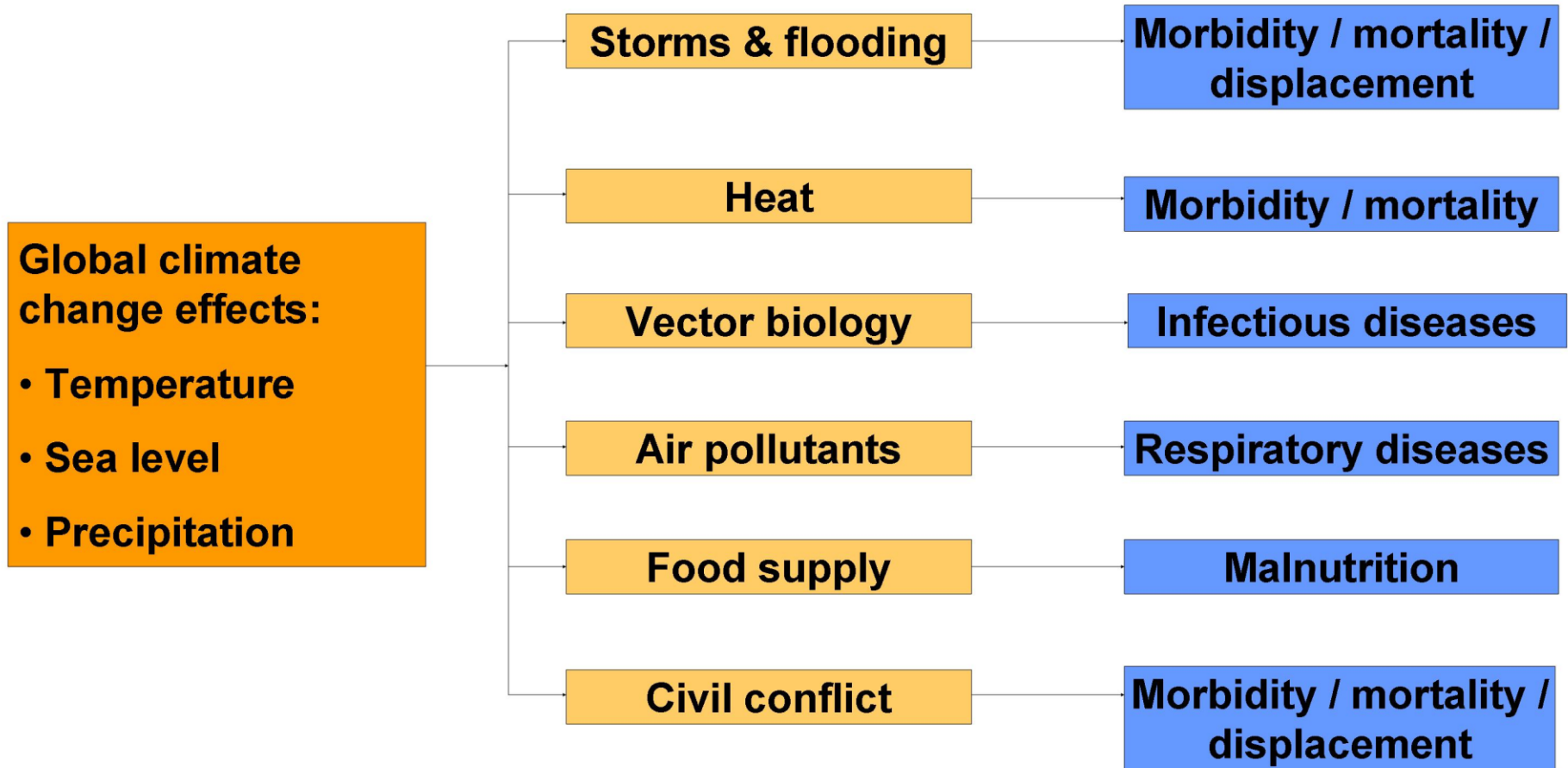
Citizen Jury  
June 13, 2014



# Center for Earth, Energy and Democracy (CEED)

- Climate, Energy and Environmental Policy
- Community Planning and Restoration
- Grassroots Popular Education
- Environment & Equity Consultation and Workshops

# Potential Impacts of Global Climate Change on Human Health

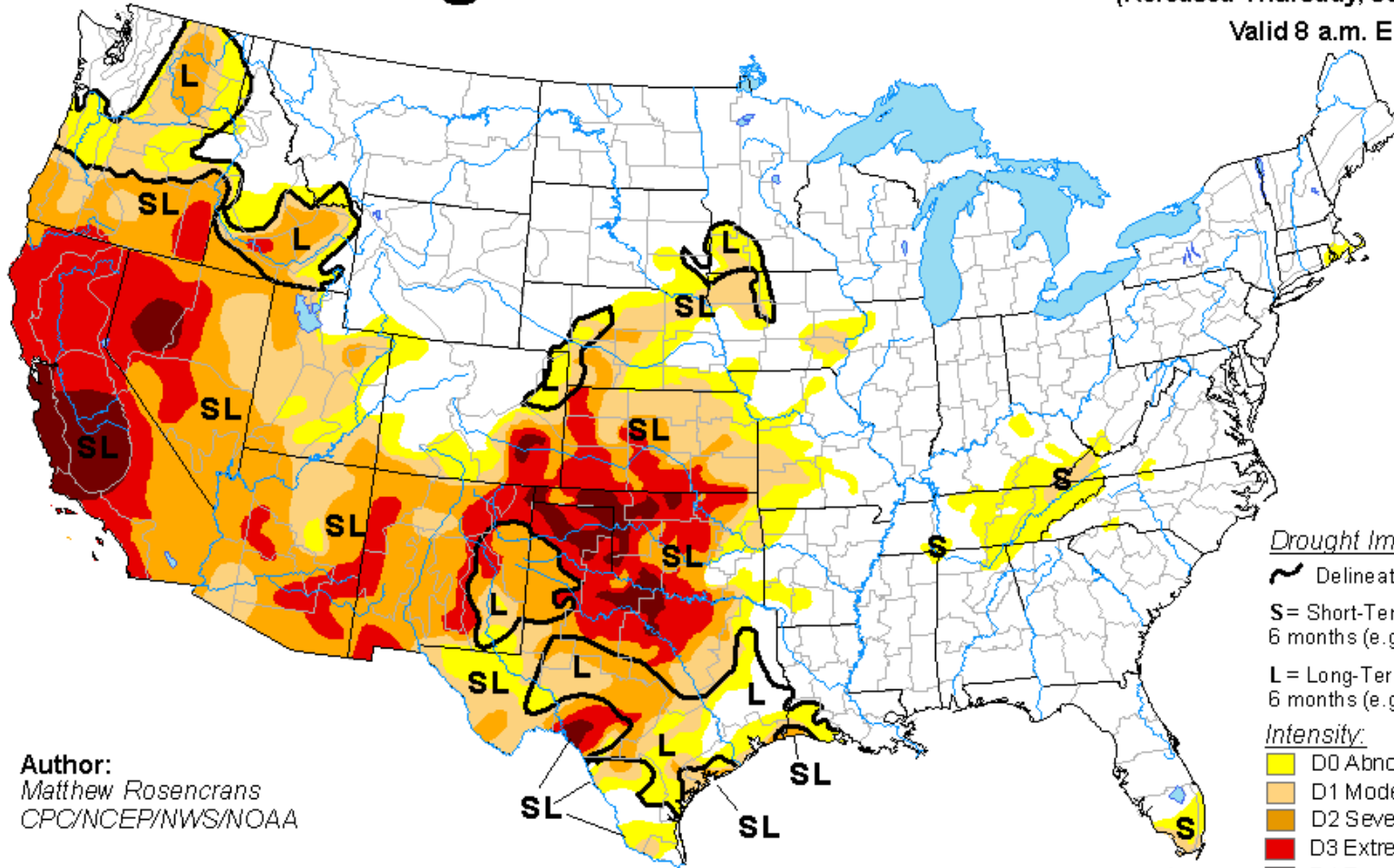


# U.S. Drought Monitor

June 10, 2014

(Released Thursday, Jun. 12, 2014)

Valid 8 a.m. EDT



Author:  
Matthew Rosenkrans  
CPC/NCEP/NWS/NOAA

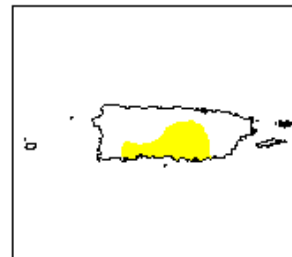
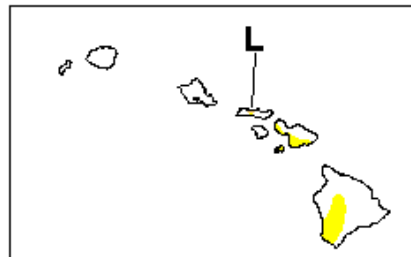
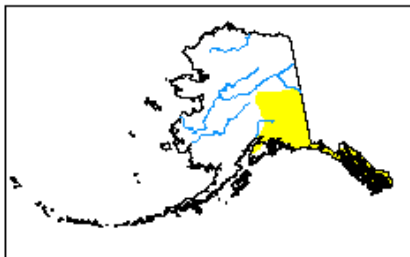
### Drought Impact Types:

- Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

### Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>

**“The ongoing drought in California could potentially have large and lasting effects on fruit, vegetable, dairy and,egg prices.”**

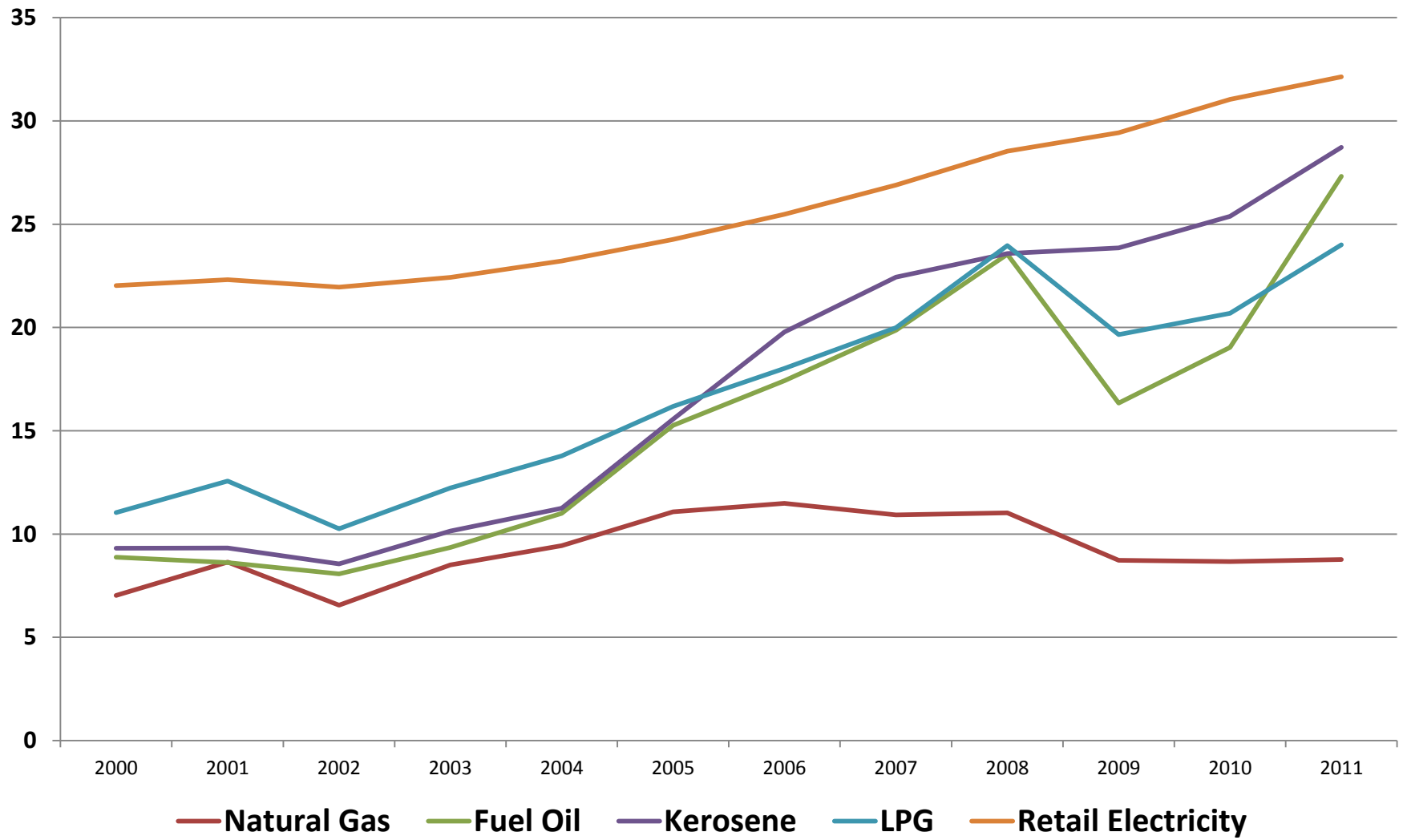
**-USDA**

- **Egg prices 5.5%**
- **fruits and vegetables 3.0%**
- **Dairy:milk and cheese 3.0%**

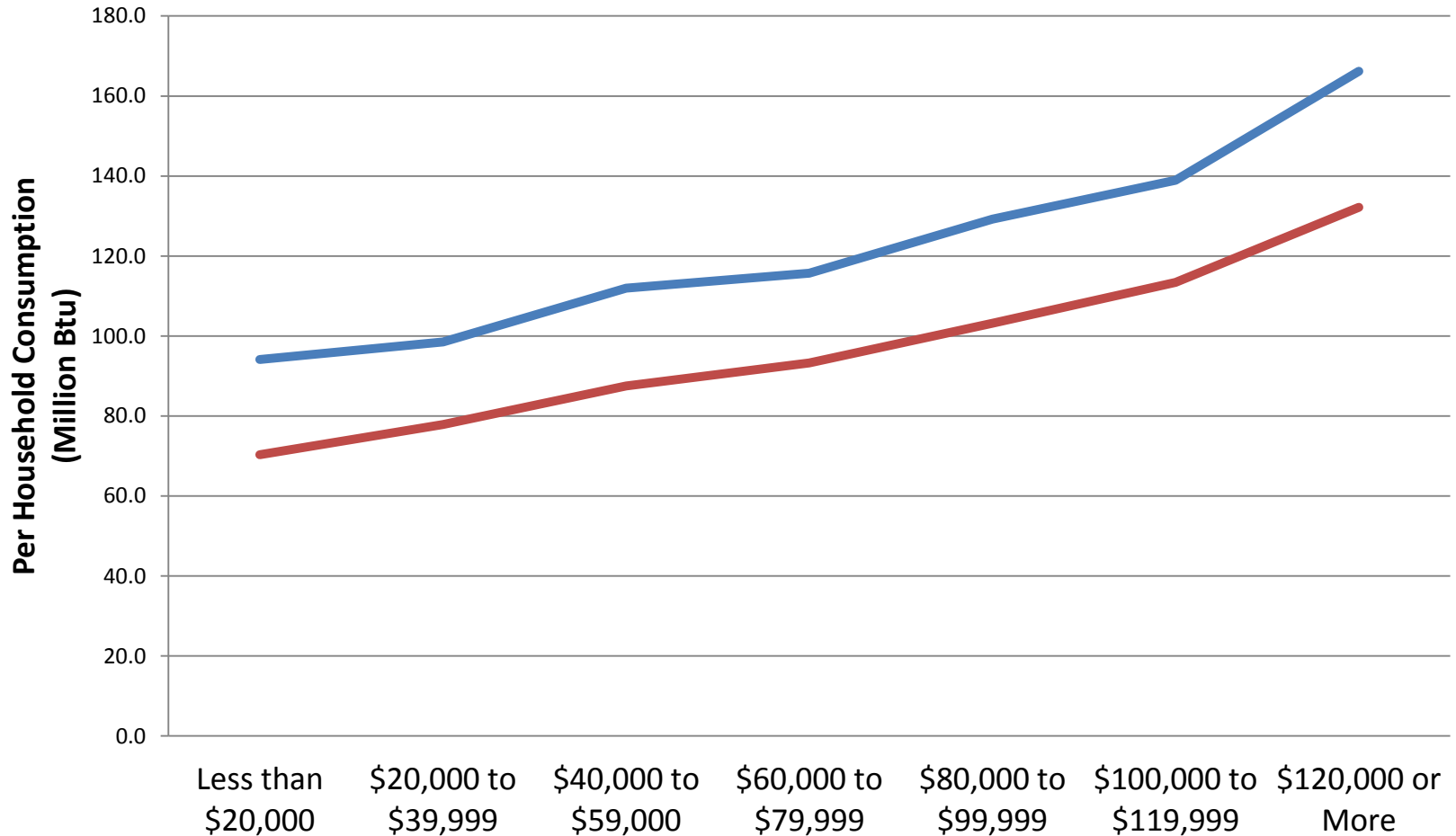
# Minnesota 2010 Greenhouse Gas Emissions by Economic Sector



## MN residential fuel prices, (\$/million btu)



# Energy Consumption Per Household by Income Midwest vs. National



— Per Household Midwest      — Per Household National

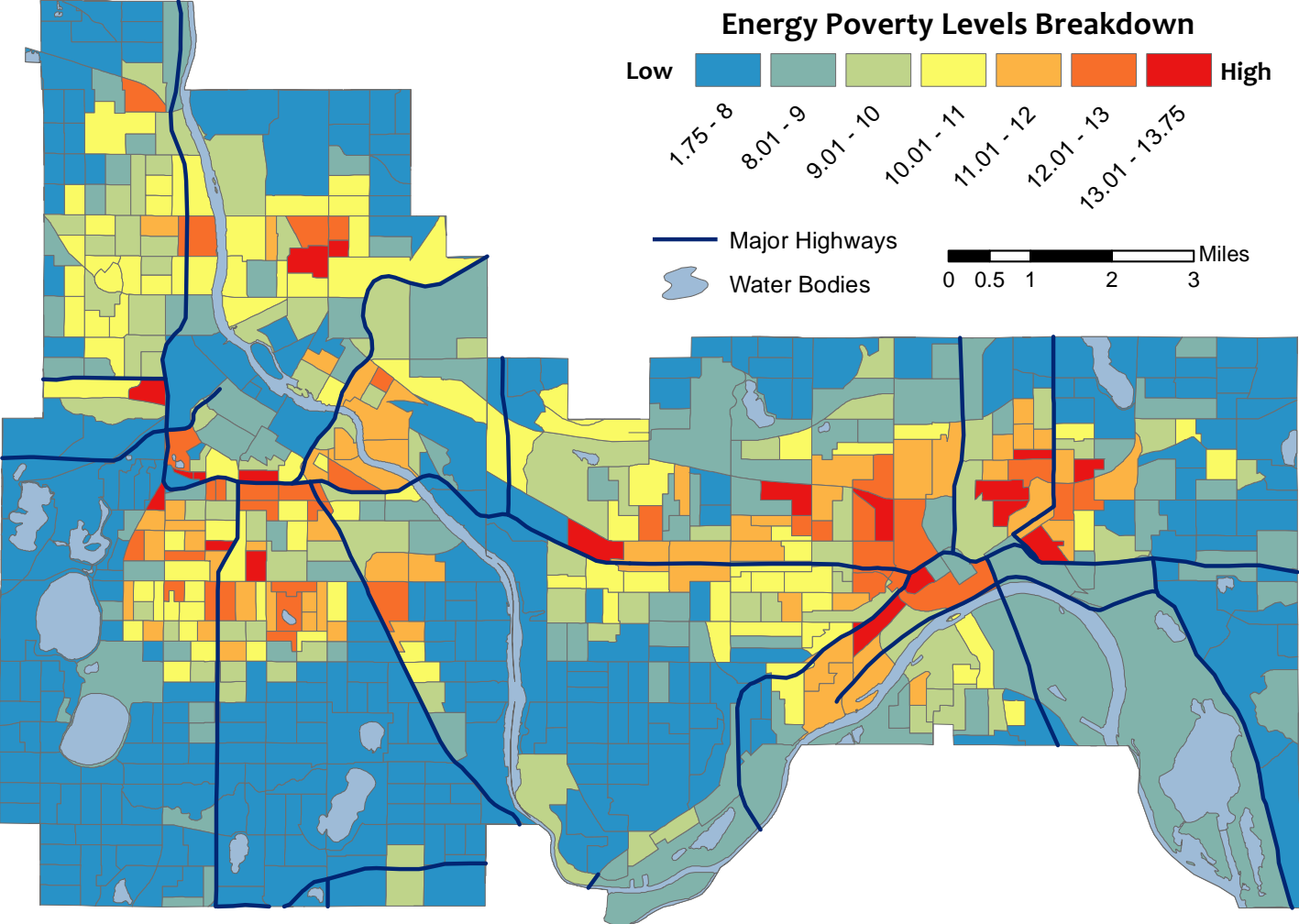


# Energy Burden

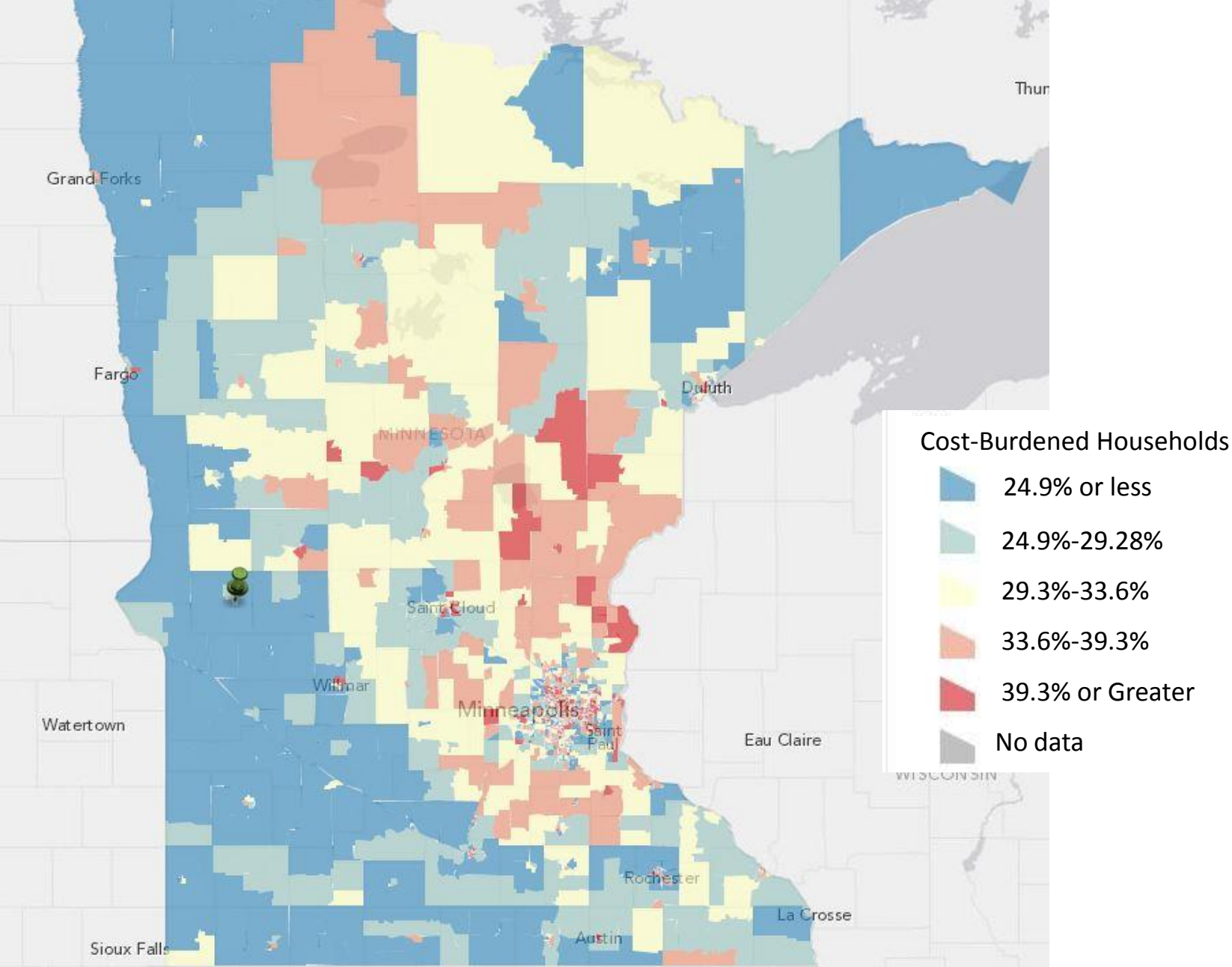
	<b>Income of Family of 4</b>	<b>Home Energy Burden</b>	<b>Actual Energy Costs</b>
<b>100% of Poverty Level</b>	\$23,850.00	17%	\$4,054.00
<b>150% of Poverty Level</b>	\$35,775.00	10%	\$3,577.00
<b>200% of Poverty Level</b>	\$47,700.00	7%	\$3,339.00

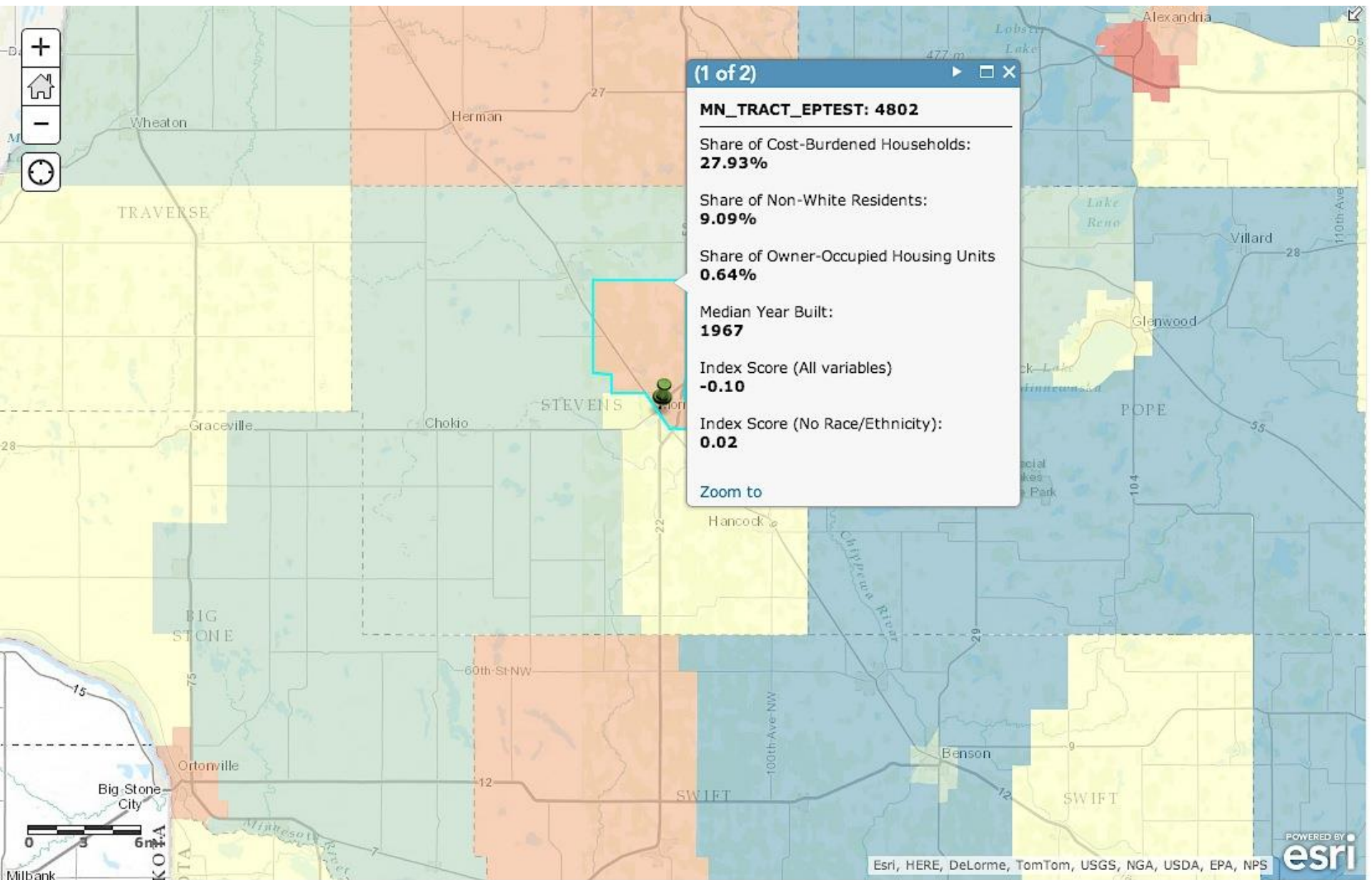
Morris Median Household Income in 2011 \$39,070\*

# Vulnerability to Energy Poverty in the Twin Cities, MN



# Minnesota State Cost-Burdened Households Map





(1 of 2) [Close] [Refresh] [Home] [Zoom In] [Zoom Out]

**MN\_TRACT\_EPTTEST: 4802**

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Share of Cost-Burdened Households:  
**27.93%**

Share of Non-White Residents:  
**9.09%**

Share of Owner-Occupied Housing Units  
**0.64%**

Median Year Built:  
**1967**

Index Score (All variables)  
**-0.10**

Index Score (No Race/Ethnicity):  
**0.02**

Zoom to



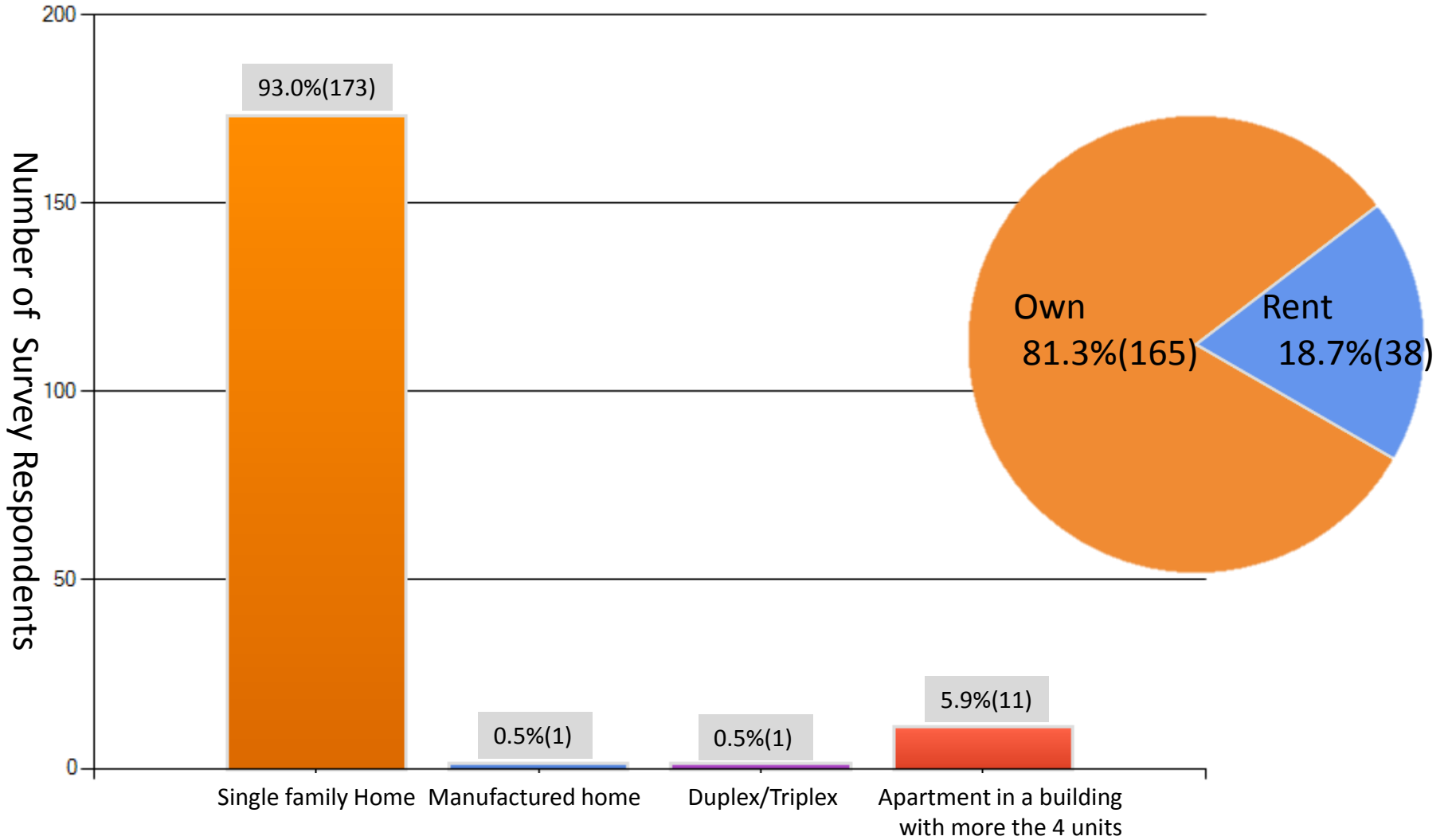
CITY OF  
**MORRIS**

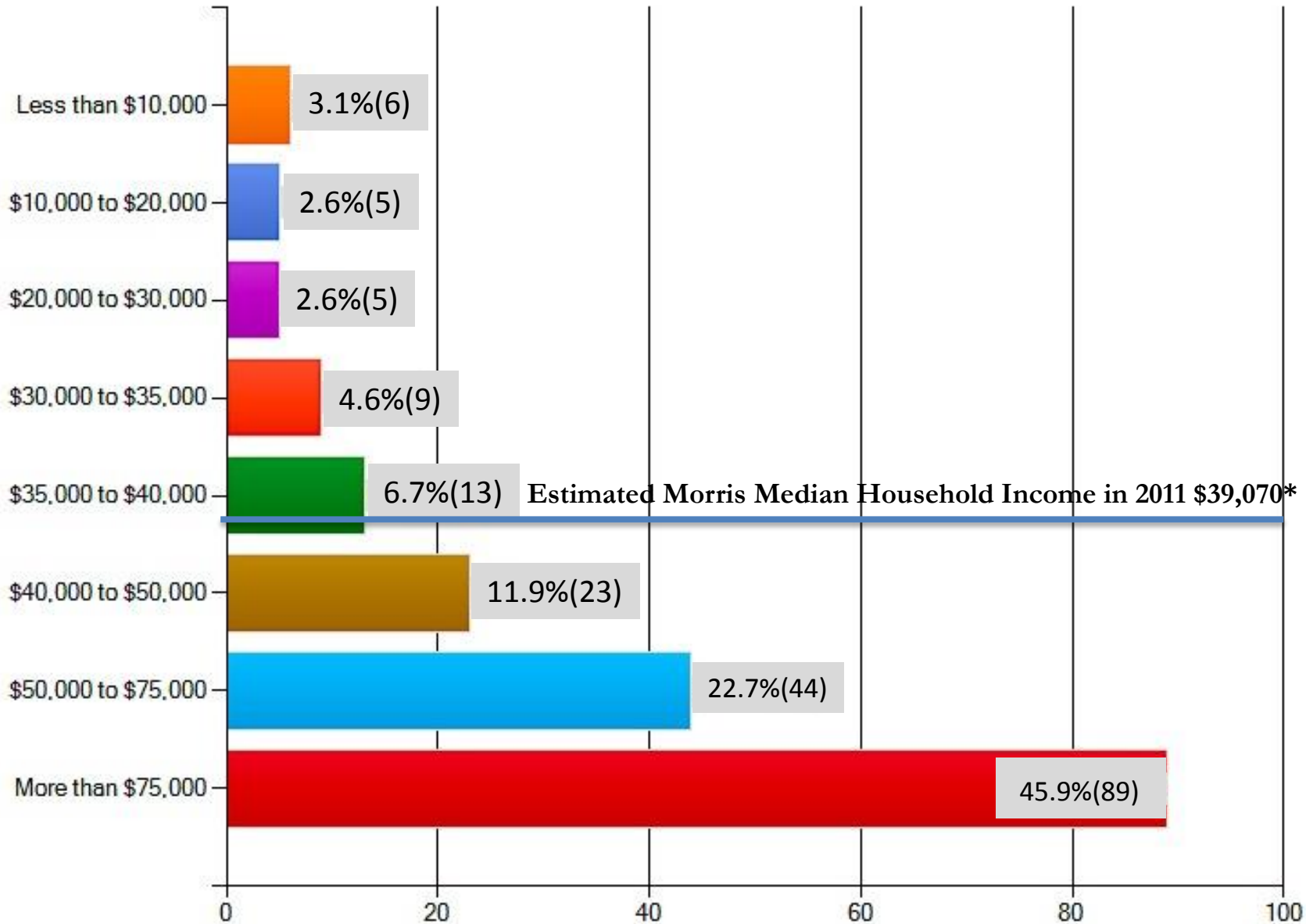
Community  
Energy Survey  
Results Report

204 Surveys

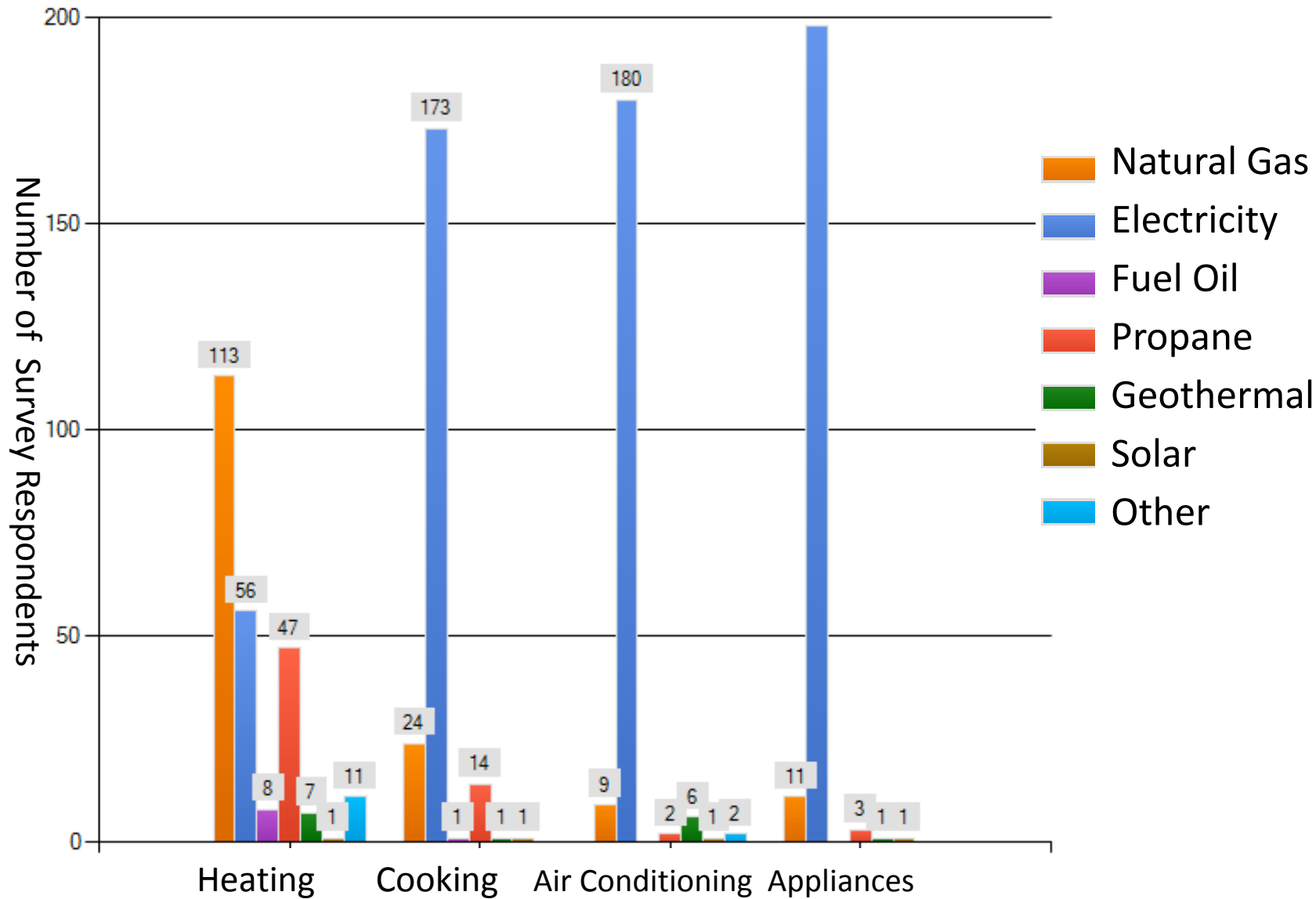


### What is your primary residence?



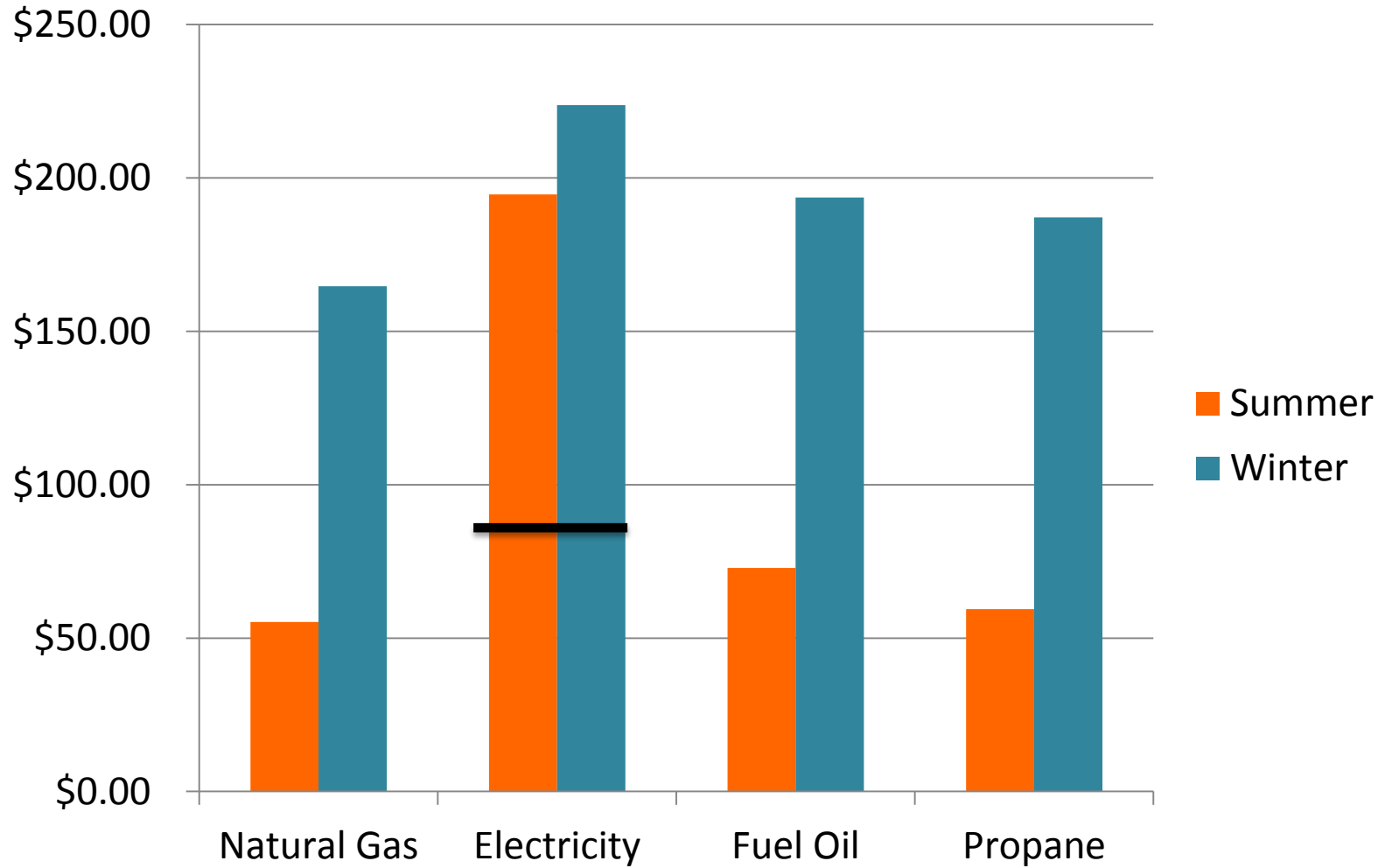


\*Estimated Morris Median Household income data from <http://www.city-data.com/city/Morris-Minnesota.html>



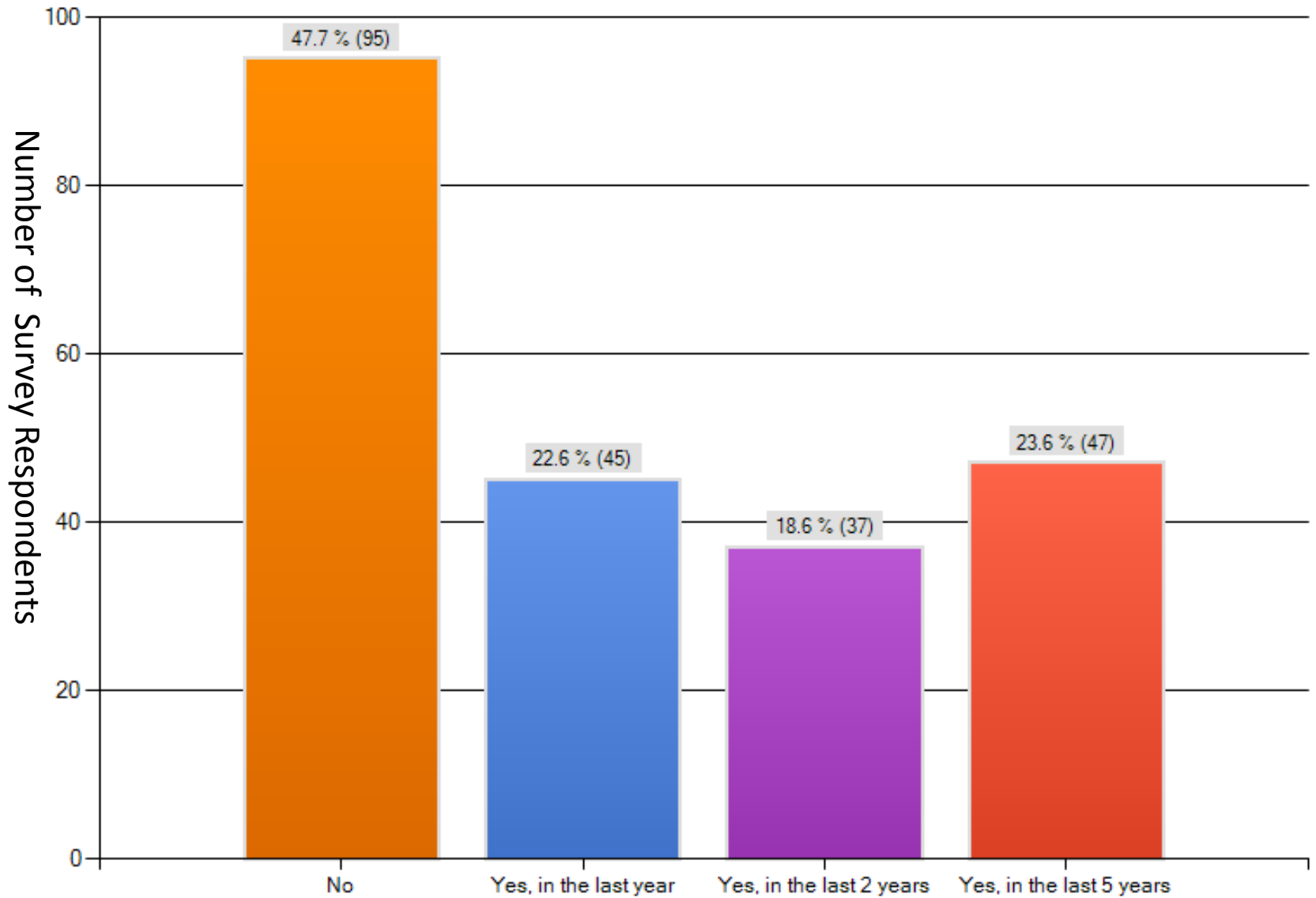


## Summer/Winter Monthly Energy Bill



Q8: Have you done any work on  
your house that has helped to  
**REDUCE** your energy bill/cost?

### Have you done any work on your house that has helped to reduce your energy bill/cost:



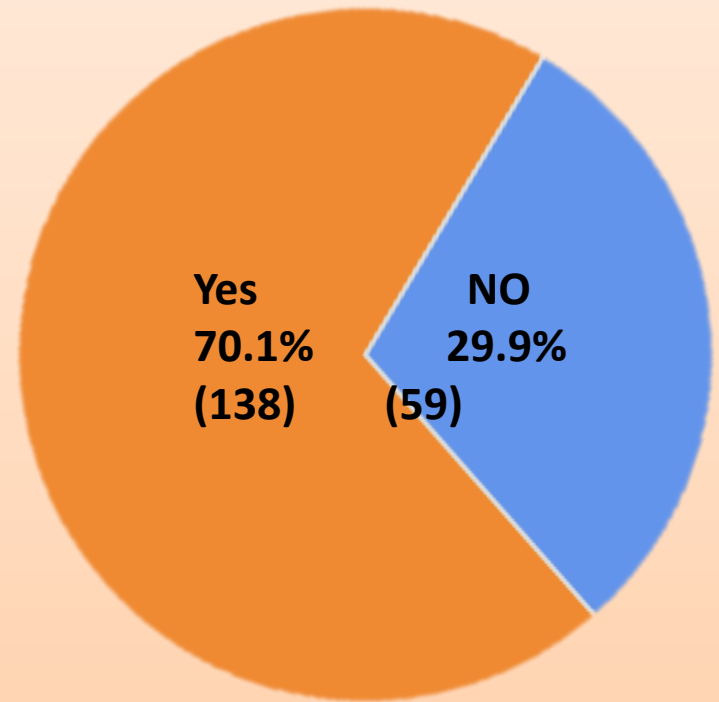
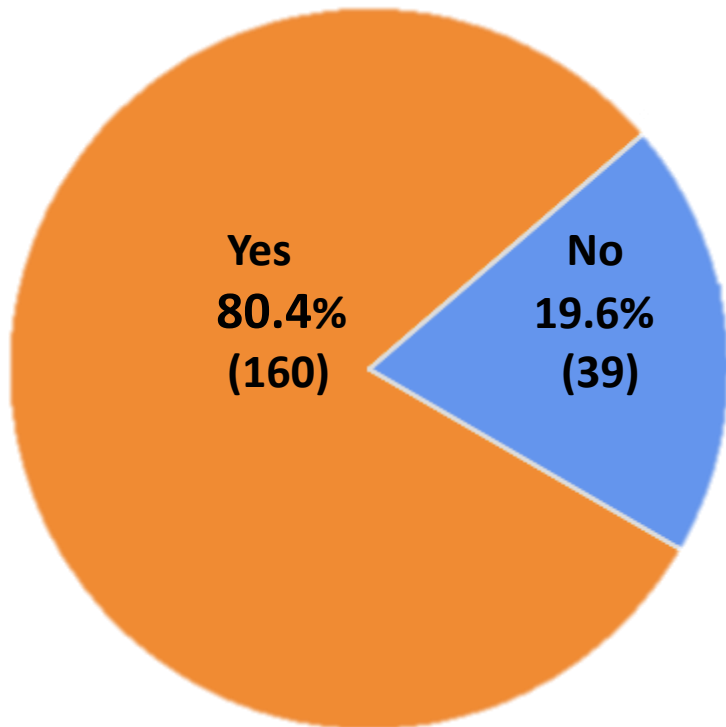
# Have you done any work on your house that has helped to reduce your energy bill/cost in the last five years:

## five years:

■ Average Monthly Bill



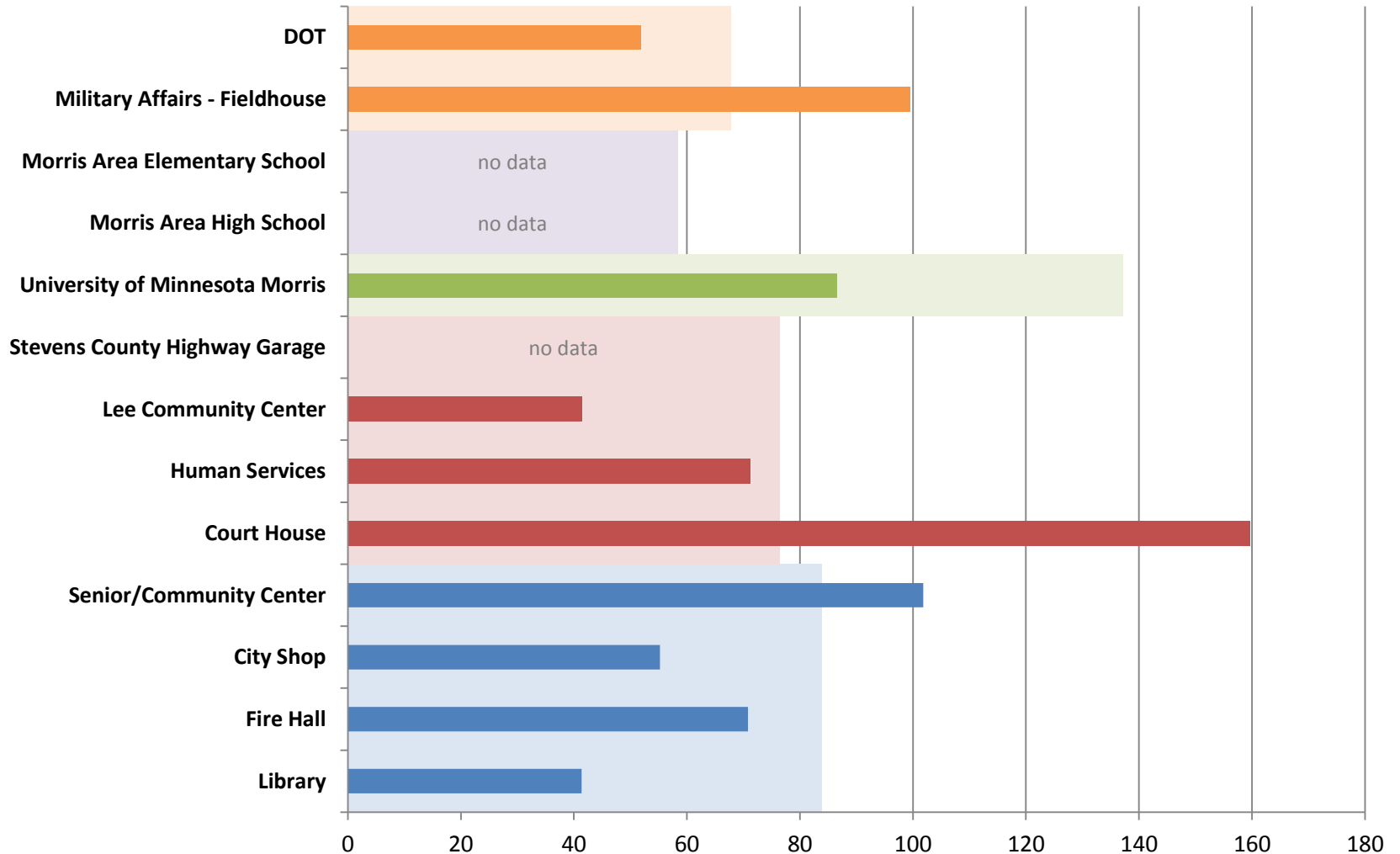
# Are You Interested Ways to **Reduce Your Energy Bills?**



Are You Interested in  
**renewable energy  
options**(solar, wind,  
geothermal, etc.)?

# Morris Public Buildings Energy Use

Morris area public buildings actual kBtu/sq. ft. compared to state average for comparable size and ownership of building





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**Thank You!**