

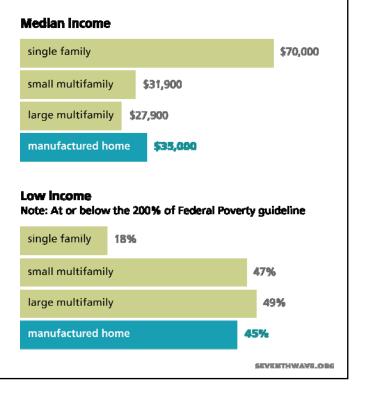




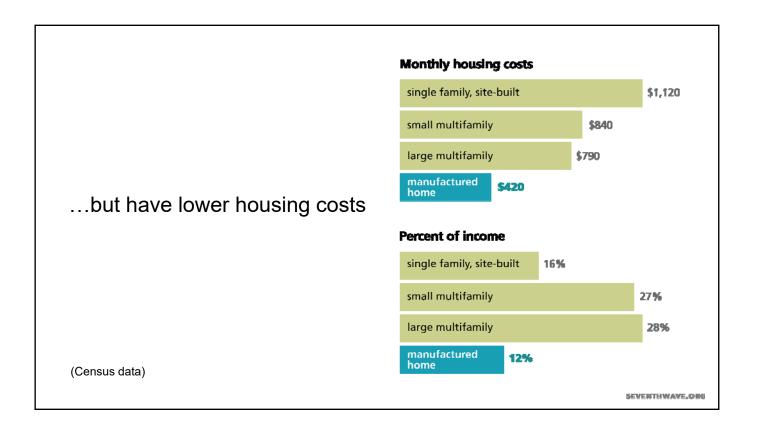




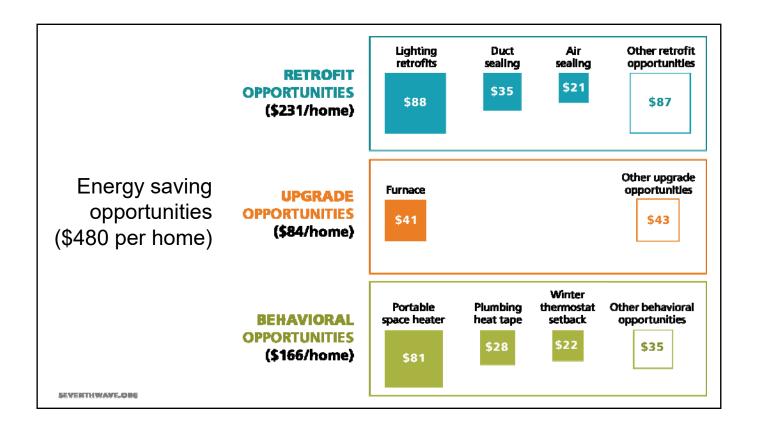
MH households resemble apartment dwellers in terms of income and poverty...



(Census data)



Heating fuel	Percent of homes (survey)		ial total jy costs*
Natural gas	59%		\$1,860
Electricity	3%	~Q*	\$2,930
Propane	30%		\$2,330
Fuel oil	4%		\$2,280
Wood	4%		\$1,930
Weighted average	100%		\$2,050
	Natural gas Electricity Propane Fuel oil Wood Weighted	Heating fuelhomes (survey)Natural gas59%Electricity3%Propane30%Fuel oil4%Wood4%Weighted100%	Heating fuelhomes (survey)energyNatural gas59%Electricity3% <i><i><i><i><i><i><i><i><i><i><i><i><i></i></i></i></i></i></i></i></i></i></i></i></i></i>

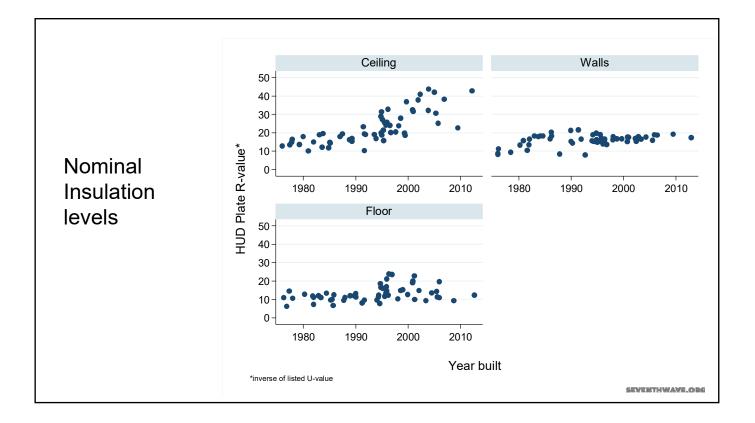


Opportunities by
interest and ability
of homeowner

		ABILITY				
		Low	Medium	High	Total	
	Not willing	1%	<1%	0%	1%	
WILLINGNESS	Somewhat willing	18%	11%	<1%	30%	
	Willing	20%	14%	9%	42%	
	Very willing	3%	5%	1 9 %	27%	
	Total	42%	30%	28%	100%	

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				ABIL	ITY	
			Low	Medium	High	Total
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Minnesota Administrative Rule 1350.3800

1350.3800 CONSTRUCTION ALTERATIONS.

Subpart 1. Effect on seal or label. Any alteration of the construction, plumbing, heating, cooling, fuelburning system, electrical equipment, installation, or fire safety in a manufactured home that bears a seal or label, prior to receiving review and approval, and prior to obtaining permits, which include necessary inspections, shall void the approval, and the seal or label shall be returned to the commissioner.

Subp. 2. Acts not constituting alterations. The following shall not constitute an alteration: repairs with approved components or parts; conversion of listed fuel-burning appliances in accordance with the terms of their listing; adjustment and maintenance of equipment; or replacement of equipment in kind.

Subp. 3. **Application.** Any person proposing an alteration to a manufactured home bearing a seal or label shall make application for review and approval of the alteration to the commissioner or to the local authority having jurisdiction on the form issued by the commissioner.

Subp. 4. **Inspection.** Upon completion of the alteration, the applicant shall request the commissioner or the local authority having jurisdiction to make an inspection pursuant to part <u>1350.2100</u> to determine code compliance of the approved alteration.

Subp. 5. **Replacement construction seal.** If approvals and inspections for alterations were not obtained, and the home's construction seal or label is removed by the commissioner, or the commissioner ordered removal by the local authority having jurisdiction, then the applicant may apply for a replacement construction seal upon inspection and approval of the alteration. Replacement construction seals shall require submission of an application in accordance with part <u>1350.0500</u>, subpart 2.

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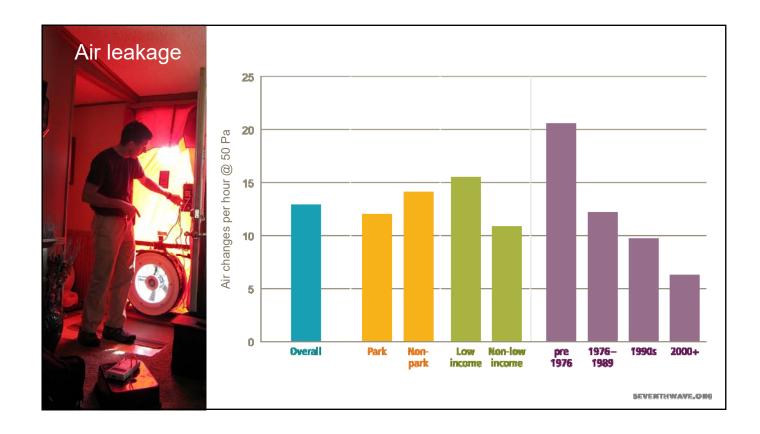
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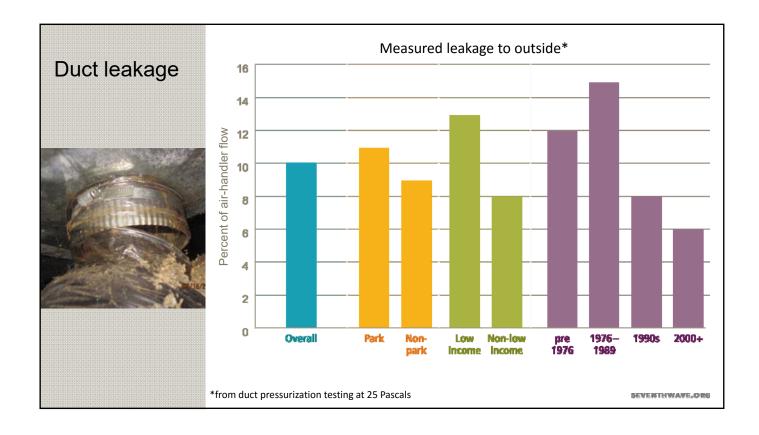
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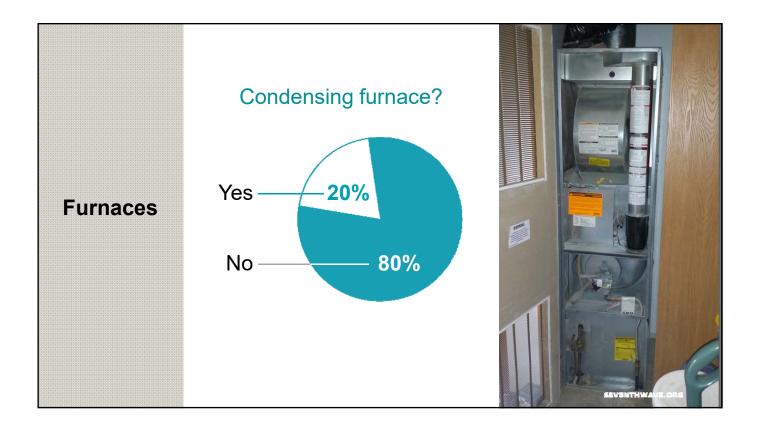




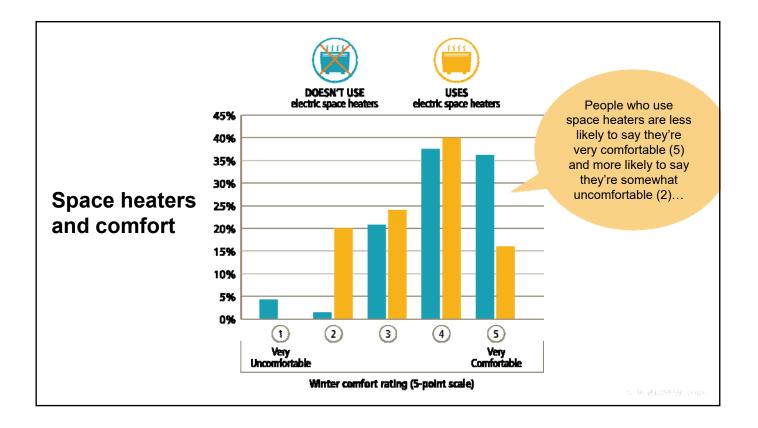
Some homes that we visited had already been air sealed by WAP

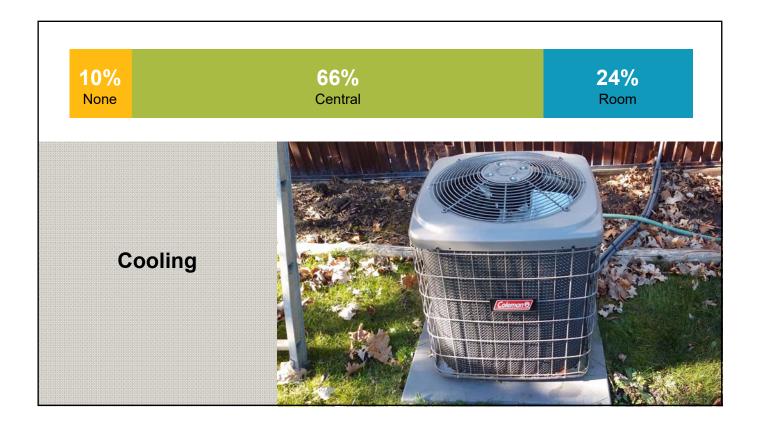


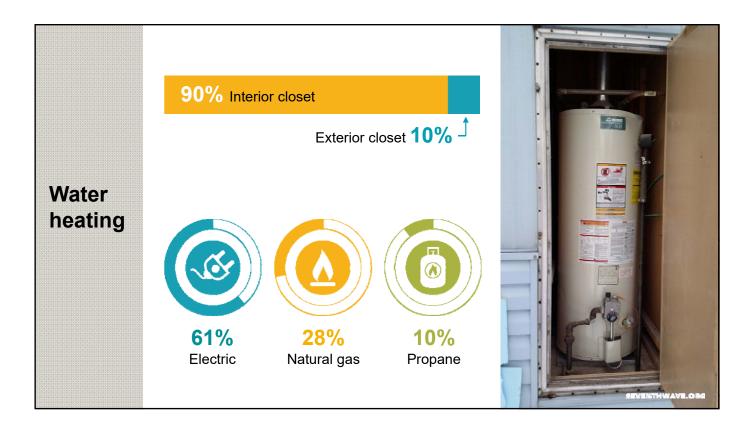




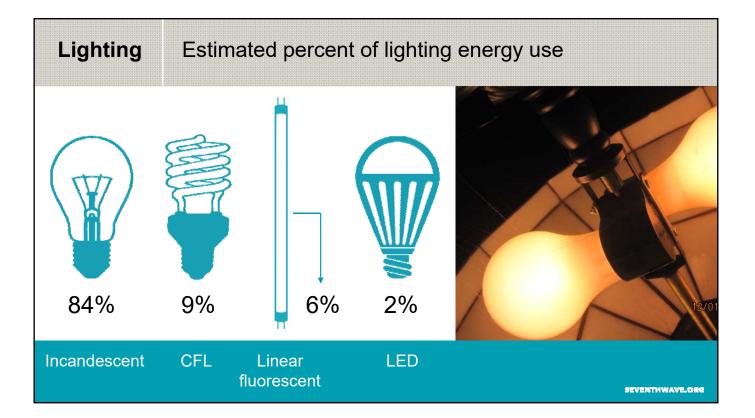


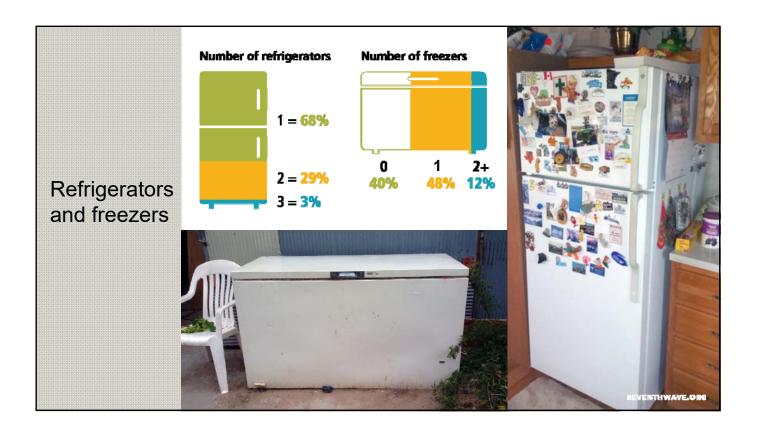


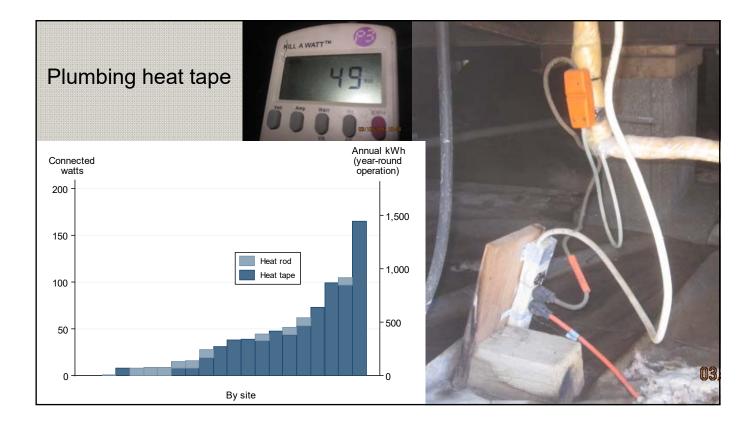


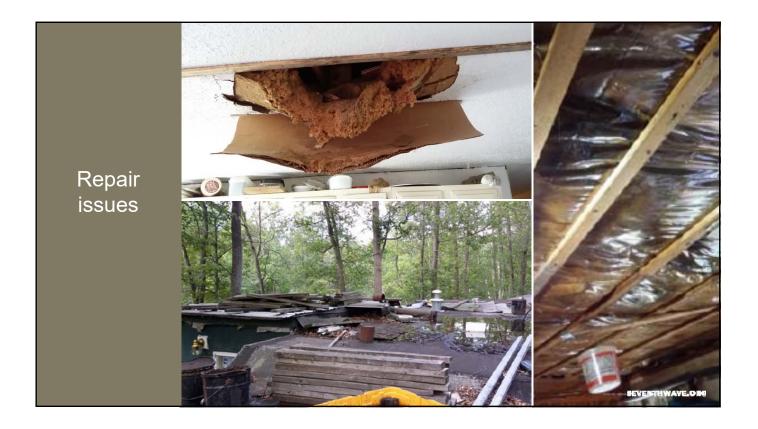












Recommendations

Utilities should work closely with the Utilities and the State could coordinate 4 Minnesota Weatherization Assistance on ways to address the significant use Program of electric space heaters Engage with WAP by helping identify the Utilities could expand the scope of their 5 2 many manufactured homes on private existing residential new construction programs to provide incentives for the property for targeting low-income services purchase and installation of an Manufactured-homes parks provide an ENERGY STAR manufactured home 3 opportunity for "blitz" type programs specifically targeting this housing SEVENTHWAVE.OBS

