

Managing the Weatherization Funds Hodgepodge

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Introduction

- Challenges weatherizing low-income homes
 - Roof, mold and moisture, lead
 - Other health and safety
- Other programs and funding
 - LIHEAP, REACH, HUD, Ratepayer-funded, Health department, ...

Introduction

- Benefits to program coordination
 - Increased efficiencies
 - Ability to serve otherwise “untreatable” homes
 - Reduced client burden
- Challenges to program coordination
 - Program rules and requirements
 - Eligibility requirements
 - Data systems
 - Program reporting requirements

Introduction

- Areas for coordination and integration
 - Funding
 - Administration
 - Outreach
 - Delivery
 - Quality Control

Outline

- Introduction
- Examples
 - Ohio
 - Maine
 - South Carolina
 - New York
 - Colorado
- Summary and Recommendations
- Discussion

Ohio

Ohio – Energy Programs

- Weatherization
- LIHEAP
- Percentage of Income Payment Program (PIPP)
- Electric Partnership Program (EPP)
- Gas and electric utility weatherization programs
 - Columbia Gas' WarmChoice, Vectren TEEM, Dominion's Housewarming, FirstEnergy's Community Connections, and programs funded by Duke Energy Ohio, the Dayton Power & Light Company, Northeast Ohio Natural Gas, and Cleveland Public Power.

Ohio – Unmet Needs

- Underserved Population
 - Households with chronic health problems
 - Frail older individuals
 - Young children
- Unmet Needs
 - Inadequate heating and cooling systems
 - Poor ventilation
 - Mold and moisture
 - Other health and safety issues

Ohio – Weatherization Cannot Solve All Problems

- Weatherization identifies health and environmental problems.
- Measure selection guidelines place highest priority on energy savings.
- Funds are not adequate to solve some critical problems.
- Households cannot be served or cannot be served adequately.

Ohio - REACH

- Residential Energy Assistance Challenge Option Program
- Funds innovative demonstration projects aimed to reduce the energy vulnerability of LIHEAP-eligible low-income households.
 - Minimize health and safety risks that result from high energy bills.
 - Increase efficiency of energy usage by low-income families.
 - Target energy assistance to individuals who are most in need.

Ohio REACH Model

- Prescreening – Identify potential wx clients with vulnerable household members.
- Assessment – Assess energy needs, environmental risks, and health status of all household members.
- Prioritization – Prioritize wx measures for greatest impact on energy usage and health.
- Supplemental Measures – Identify additional measures to enhance health of vulnerable household members.

Ohio REACH Model

- Household Contract – Identify client actions to reduce environmental risks and enhance long-term health.
- Referrals – Make referrals to additional services that may further improve the health of the home.
- Assessment – Evaluate impact on environmental risks and change in health status.

Ohio REACH Model

- Focus
 - Reprioritization of wx measures.
 - Funding of key measures to affect health and safety.
- Model was designed to be sustainable after conclusion of REACH.
- Concept was modest funding that could continue, using a portion of LIHEAP funds.

Ohio REACH Partnerships

- Health agencies – state, county, city
- College of nursing
- Diabetes association
- OH State University, Environmental Health
- OH Agency on Aging

Ohio REACH Partnerships

- OH Environmental Protection
Environmental Education
- Rebuilding Together Central OH
- SERVPRO (fire and water damage cleanup)
- City of Columbus, Department of
Development, Emergency Repair Program

Ohio REACH Challenges

- Original budget
 - \$500 for home health and energy audits
 - \$1,000 for additional health-related measures
 - 500 homes served
- HHS approved re-budget
 - \$3,000 average cost
 - 250 homes served
- Total of 180 homes served in program

Ohio REACH Challenges

- Joint service delivery
 - Not intended to be delivered after WAP was completed.
 - Requirement for pre-interview helped to reinforce this.
 - Each home approached differently.

Ohio REACH Health Issues

- Moisture
- Mold
- Roof leaks
- Plumbing leaks
- Pests

Ohio REACH

Services Needed

- Plumbing repairs
- Repairs to gutters and downspouts
- Central air conditioning repaired or replaced
- Environmental and mold cleaning
- Minor roof repairs
- Ventilation
- Dehumidifiers
- Extermination
- Ramps

Ohio REACH

Air Sealing Measures

Air Sealing Measures									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Caulking & weather-stripping	139	79%	3%	93%	6%	87	96%	52	61%
Blower door guided air sealing	141	80%	1%	92%	7%	88	97%	53	62%
Non blower door guided air sealing	168	95%	1%	93%	7%	88	97%	80	94%
Duct sealing & repair	110	63%	2%	90%	9%	40	44%	70	82%
Other air sealing work	34	19%	3%	88%	15%	8	9%	26	31%

Ohio REACH Insulation Measures

Insulation Measures									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Attic	151	86%	1%	93%	7%	78	86%	73	86%
Wall	130	74%	0%	94%	7%	83	91%	47	55%
Floor	20	11%	5%	80%	15%	7	8%	13	15%
Duct	10	6%	0%	90%	0%	4	4%	6	7%
Other	15	9%	0%	100%	0%	4	4%	11	13%

Ohio REACH Space Heating Measures

Space Heating Measures									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Replace	56	32%	4%	64%	32%	31	34%	25	29%
Repair	41	23%	5%	78%	12%	8	9%	33	39%
Tuned up	79	45%	3%	89%	9%	55	60%	24	28%

Ohio REACH

Air Conditioning Measures

Air Conditioning Measures									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Window AC	3	2%	0%	0%	67%	3	3%	0	0%
Central AC	14	8%	86%	7%	7%	4	4%	10	12%
Repair	4	2%	50%	50%	0%	0	0%	4	5%
Tuned up	8	5%	75%	13%	0%	2	2%	6	7%
Ceiling Fan	11	6%	0%	18%	82%	11	12%	0	0%

Ohio REACH Ventilation Measures

Ventilation Measures									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Bath	99	56%	73%	16%	11%	87	96%	12	14%
Kitchen	34	19%	76%	6%	18%	32	35%	2	24%
House	2	1%	0%	50%	50%	1	1%	1	1%
Other	27	15%	19%	63%	11%	8	9%	19	22%

Ohio REACH

Attic/Roof and Repairs

Attic and Roof									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Attic Vent	98	56%	0%	84%	14%	76	84%	22	26%
Roof Repair	26	15%	23%	27%	50%	25	27%	1	1%
Chimney Liner	25	14%	16%	64%	16%	17	19%	8	9%

Repairs									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Repairs									
Plumbing	56	32%	55%	5%	41%	37	41%	19	22%
Sewer	24	14%	29%	17%	54%	21	23%	3	4%
Electrical	14	8%	36%	50%	36%	7	8%	7	8%

Ohio REACH

Health and Safety Measures

Health and Safety Measures									
	All Jobs					CHN Jobs		BA Jobs	
	Measure Installed		Funding			Measure Installed		Measure Installed	
	#	%	REACH	WAP	Oth	#	%	#	%
Smoke Alarm	88	50%	2%	14%	86%	82	90%	6	7%
CO Monitor	96	55%	7%	85%	7%	89	98%	7	8%
Gutter/ Downspout	96	55%	89%	7%	4%	81	89%	15	18%
Grading Lot	67	38%	82%	7%	10%	60	66%	7	8%
Stair Repair	12	7%	75%	8%	37%	5	5%	7	8%
Bath Bar	5	3%	60%	0%	20%	1	1%	4	5%
No Skid Bath	2	1%	0%	100%	0%	2	2%	0	0%

Ohio REACH Measure Summary

- Funds leveraged.
- REACH funding of important health and safety measures.
- WAP funding of typical weatherization measures.

Ohio REACH

Pre/Post Survey Design

- Purpose – assess impact of the program on client health, safety, and comfort.
- Pre survey – conducted prior to any service delivery.
- Post survey – conducted one year later.

Ohio REACH

Pre/Post Example Result

Client Pre/Post Survey – Home Conditions							
	Treated Clients (N=93)			Untreated Clients (N=59)			Net Change
	Pre	Post	Change	Pre	Post	Change	
Unsafe or unhealthy condition	85%	38%	47**	80%	59%	21**	26**
Unsafe condition (unprompted) -mold	55%	16%	39**	49%	20%	29**	10
Unsafe condition (unprompted) -drafty	18%	6%	12**	15%	15%	0	12**

Ohio REACH

Pre/Post Example Result

Client Pre/Post Survey – Client Behavior							
	Treated Clients (N=93)			Untreated Clients (N=59)			Net Change
	Pre	Post	Change	Pre	Post	Change	
Smoke in home	27%	26%	1	22%	27%	-5	6**
Do not use exhaust fan when showering	58%	34%	24**	73%	75%	-2	26**
Do not use exhaust fan when cooking	57%	46%	11*	59%	54%	5	6
Warm up car in garage	4%	5%	1	0%	2%	2	-1

Ohio REACH

Pre/Post Example Result

Client Pre/Post Survey – Mold							
	Treated Clients (N=93)			Untreated Clients (N=59)			Net Change
	Pre	Post	Change	Pre	Post	Change	
Any mold	69%	27%	42**	63%	39%	24**	18*
Mold in kitchen	5%	3%	2	10%	7%	3	-1
Mold in bathroom	42%	13%	29**	37%	20%	17**	12#
Mold in basement	51%	15%	36**	47%	29%	18**	18*

Ohio REACH

Pre/Post Survey Summary

- Significant improvements in safety, healthy behaviors, mold, pests, humidity, health, comfort, and winter and summer temperatures.
- Positive impacts not seen on health outcomes.

Ohio REACH Accomplishments

- 180 clients received services.
- Allowed agencies to serve underserved households.
- Program coordination and leveraged funds.
- New partnerships.
- Capacity building.

Ohio REACH Summary

- WAP can leverage additional funds to provide beneficial health, safety, and comfort impacts for program participants.
- Providers integrated additional health and safety measures into their established WAP procedures.
- Additional measures had a beneficial impact for the clients.

Ohio REACH Recommendations

- Use available funding to provide ancillary services to WAP participants.
- Find the most efficient ways to integrate measures with current practices.
- Different models may work better with different agencies' current procedures.
- New health and safety measures should be implemented in a flexible way, to take advantage of agency partnerships and to create the greatest benefit.

Maine

Maine – Integrated Programs

- Weatherization Assistance Program (WAP)
- Appliance Replacement (ratepayer-funded)
- Home Rehabilitation – roof, windows, other (Maine Housing)
- Furnace Replacement (LIHEAP)
- Lead (competitive federal grant)
- Mobile Home (pre-1976) Replacement (Maine Housing)

Maine – Accomplishments/Benefits

- Sustained funding
- Clear delineation between programs (allocation of funding and following regulations)
- Increased efficiency
- One-stop shopping for clients
- Almost never have to walk away

Maine – Challenges

- Bringing various agencies together
- Willingness to partner and share territory
- Helpful to have outside advisor
- Sharing data (Maine is improving)

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