

V(A). Planned Program (Summary)

Program # 12

1. Name of the Planned Program

Built Environments and Sustainable Energy

Reporting on this Program

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
605	Natural Resource and Environmental Economics	3%			
608	Community Resource Planning and Development	2%			
723	Hazards to Human Health and Safety	5%			
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	90%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	4.0	0.0	0.0	0.0
Actual Paid Professional	4.0	0.0	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
129776	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
141553	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Conduct hands-on workshops for builders and consumers. Assemble and maintain relevant website and guidesheet information. Create a comprehensive Missouri Guide to Green Buildings. Encourage and support involvement in state, county, and local governments and agencies supporting energy-efficient, green buildings and homes. Assemble and maintain relevant website and guidesheet information on indoor air quality, home pollutants, home safety, and disaster preparedness. Maintain curriculum for K-12 schools and at-risk families. Encourage and support involvement in state, county, and local governments and agencies supporting healthy homes and disaster preparedness. Assemble and maintain relevant website and guidesheet information on housing types, maintenance, renting, home financial management and development. Develop curriculum for advocacy groups, housing agencies and nonprofit organizations. Encourage and support involvement in housing coalitions and agencies.

2. Brief description of the target audience

Government Emergency management departments; Health Agencies; Medical groups and agencies; Day care providers; 4-H programs and Family and consumer science educators; Landlords and tenants; Builders and contractors; Real estate agents and brokers; K-12 educators, students, school districts; Consumers of home appliances; Do-it-yourself consumers; Business owners; Non-profit Energy and Ecological Organizations; Energy Cooperatives and Utilities; First Time Homebuyers; Existing and Long-term Homeowners; Non-profit Housing Agencies; Government and State Housing Directors.

3. How was eXtension used?

MU Extension faculty have been activity involved in submitting FAQs. In the Building Environments and Housing area, we have several faculty assisting to lead a CoP. Mike Goldschmidt and Marsha Alexander, specifically, have given much of their time to this effort.

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	1701	1524	202	101

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2012
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	Extension	Research	Total
Actual	1	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of workshops, programs, fairs, and conferences.

Year	Actual
2012	136

Output #2

Output Measure

- Number of unique website visits.

Year	Actual
2012	110473

Output #3

Output Measure

- Number of guide sheets distributed.

Year	Actual
2012	295

Output #4

Output Measure

- Number of in-service opportunities.

Year	Actual
2012	2

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Percent of participants who have a home disaster preparedness plan.
2	Percent of participants who secure funding to purchase a home.
3	Percent of participants who indicate they feel able to maintain their home.
4	Percent of participants who have implemented energy conservation technologies.

Outcome #1

1. Outcome Measures

Percent of participants who have a home disaster preparedness plan.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

MU Extension faculty have been activity involved in submitting FAQs. In the Building Environments and Housing area, we have several faculty assisting to lead a CoP. Mike Goldschmidt and Marsha Alexander, specifically, have given much of their time to this effort.

What has been done

Building Environments programs educate consumers, professionals, and government agencies about available and affordable housing options (including programs geared toward first-time homebuyers), housing quality, landlord, tenant relations, long-term home maintenance, healthy indoor air quality, healthy homes, home safety, home disaster preparedness (fire, weather, security) and promoting environmentally-sensitive and energy-efficient homes and buildings in Missouri.

Results

Results not available.

4. Associated Knowledge Areas

KA Code	Knowledge Area
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development
723	Hazards to Human Health and Safety
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

Outcome #2

1. Outcome Measures

Percent of participants who secure funding to purchase a home.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	90

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Annually Missourians are severely affected by fire and weather disasters. The possibility also exists that Missourians might be affected by man-made (terror) and/or seismic disasters. Emergency preparedness teaches families how to prepare and cope with these possible disasters: Identify hazards likely to happen to your family; Mitigate against the hazards; Develop a response plan, including evacuation route; Plan for coping after a disaster; and Implement drills and family education

What has been done

Building Environments programs educate consumers, professionals, and government agencies about available and affordable housing options (including programs geared toward first-time homebuyers), housing quality, landlord, tenant relations, long-term home maintenance, healthy indoor air quality, healthy homes, home safety, home disaster preparedness (fire, weather, security) and promoting environmentally-sensitive and energy-efficient homes and buildings in Missouri.

Results

Over 90% of participants have secured funding to purchase a home following our homebuyer education programs. These individuals received reduced interest rates that can save them thousands over the lifetime of the loan.

4. Associated Knowledge Areas

KA Code	Knowledge Area
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

723	Hazards to Human Health and Safety
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

Outcome #3

1. Outcome Measures

Percent of participants who indicate they feel able to maintain their home.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	40

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Annually Missourians are severely affected by fire and weather disasters. The possibility also exists that Missourians might be affected by man-made (terror) and/or seismic disasters. Emergency preparedness teaches families how to prepare and cope with these possible disasters: Identify hazards likely to happen to your family; Mitigate against the hazards; Develop a response plan, including evacuation route; Plan for coping after a disaster; and Implement drills and family education.

What has been done

Building Environments programs educate consumers, professionals, and government agencies about available and affordable housing options (including programs geared toward first-time homebuyers), housing quality, landlord, tenant relations, long-term home maintenance, healthy indoor air quality, healthy homes, home safety, home disaster preparedness (fire, weather, security) and promoting environmentally-sensitive and energy-efficient homes and buildings in Missouri.

Results

Over forty percent of participants feel they will be able to maintain their home in the future as a result of this program.

4. Associated Knowledge Areas

KA Code	Knowledge Area
605	Natural Resource and Environmental Economics

608	Community Resource Planning and Development
723	Hazards to Human Health and Safety
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

Outcome #4

1. Outcome Measures

Percent of participants who have implemented energy conservation technologies.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	46

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Annually Missourians are severely affected by fire and weather disasters. The possibility also exists that Missourians might be affected by man-made (terror) and/or seismic disasters. Emergency preparedness teaches families how to prepare and cope with these possible disasters: Identify hazards likely to happen to your family; Mitigate against the hazards; Develop a response plan, including evacuation route; Plan for coping after a disaster; and Implement drills and family education.

What has been done

Building Environments programs educate consumers, professionals, and government agencies about available and affordable housing options (including programs geared toward first-time homebuyers), housing quality, landlord, tenant relations, long-term home maintenance, healthy indoor air quality, healthy homes, home safety, home disaster preparedness (fire, weather, security) and promoting environmentally-sensitive and energy-efficient homes and buildings in Missouri.

Results

Forty-six percent of participants who had a home energy audit implemented recommended energy conservation techniques. Those who implemented energy conservation techniques had an average energy savings of 32%.

4. Associated Knowledge Areas

KA Code	Knowledge Area
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development
723	Hazards to Human Health and Safety
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

The greatest barrier to programming in Built Environment programming is the need in relative comparison to faculty available to deliver programming. With only 5.5 FTE of regional faculty and 1.24 FTE on campus it is quite difficult to reach all of the areas in need of programs and services. With growing housing market and now the home foreclosure issue looming, our faculty tries to partner with outside agencies to meet the needs, but that still leaves us limited in our delivery capacity. In addition, the prolonged depressed economy makes some participants hesitant to invest large sums into their homes even if there is a long term cost savings.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Forty-six percent of participants who had a home energy audit implemented recommended energy conservation techniques. Those who implemented energy conservation techniques had an average energy savings of 32%.

Key Items of Evaluation

Over 90% of participants have secured funding to purchase a home following our homebuyer education programs. These individuals received reduced interest rates that can save them thousands over the lifetime of the loan.