

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Agriculture and Natural Resources

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships		10%		
111	Conservation and Efficient Use of Water		10%		
124	Urban Forestry		10%		
131	Alternative Uses of Land		10%		
403	Waste Disposal, Recycling, and Reuse		10%		
405	Drainage and Irrigation Systems and Facilities		10%		
721	Insects and Other Pests Affecting Humans		10%		
806	Youth Development		10%		
902	Administration of Projects and Programs		10%		
903	Communication, Education, and Information Delivery		10%		
	Total		100%		

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	4.0	0.0	0.0
Actual	0.0	4.0	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
0	168270	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	134070	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	9614	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

WVSU Extension Service personnel delivered educational hands-on workshops and trainings during the calendar year involving issues such as .

- Urban Forestry
- Urban and Suburban Green Space Development
- Community Gardening
- Home Horticulture Management
- Stormwater Management,
- Utilization of Contemporary Management Practices in Commercial Agriculture, and
- Crop Diversification

Horticultural consulting and assesments with homeowners and producers were carried out as requested. The staff partnered with various agencies including USDA, West Virginia University and the WV Department of Agriculture.

2. Brief description of the target audience

The target audience for this program is land-owners, farmers, and residential home owners through West Virginia.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	200	4000	200	3000
Actual	300	5000	300	4000

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

Patent Applications Submitted

Year: 2010
 Plan: 0
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Plan	0	0	
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Both urban/rural clientele will receive information on research-based horticultural management.

Year	Target	Actual
2010	400	400

Output #2

Output Measure

- Adult volunteers and youth will receive training in horticulture and agriculture through JMG and other training opportunities.

Year	Target	Actual
2010	40	50

Output #3

Output Measure

- workshops targeted to alternative agriculture practices will be held in targeted counties.

Year	Target	Actual
2010	6	6

Output #4

Output Measure

- WVSU Extension staff will generate media articles and stories related to alternative agriculture.

Year	Target	Actual
2010	6	6

Output #5

Output Measure

- Local sustainable agriculture members of a bio-diesel cooperative will participate in energy-focused programming.
Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	municipalities and government organizations will adopt best practices in urban forestry
2	volunteers will exhibit increased knowledge of providing age-appropriate agriculture programs to youth.
3	Extension clientele will exhibit knowledge gained from interactions with Extension staff.
4	farmers/growers will demonstrate expanded knowledge of alternative agriculture.
5	Residents will adopt the utilization of bio-diesel and participate in production process thereby re-using expended yellow grease in creation of usable fuel product.

Outcome #1

1. Outcome Measures

municipalities and government organizations will adopt best practices in urban forestry

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	2	2

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Municipalities and government organizations struggle with best management practices when dealing with their respective urban forestry plant materials. Poor management leads to lessened air quality, more erosion, and expanded problems with storm water management.

What has been done

the staff of WVSU extension service have worked to deliver educational workshops and face-to-face advising, as well as hands-on demonstrations for two municipalities. A partnership with the West Virginia Department of Forestry (WVDOF) continues to be broadened and has proven very successful as it relates to our urban forestry initiatives.

Results

As a result of our educational outreach with the two new municipalities, their respective staff have begun to adopt best management practices in urban forestry. Through utilization of these management practices, new green spaces have been established in downtown areas providing access to them for the citizenry. Additionally, tree management systems have been implemented that will, over time, increase quality of forestry materials and reduce management costs for the municipalities.

4. Associated Knowledge Areas

KA Code	Knowledge Area
124	Urban Forestry
131	Alternative Uses of Land
902	Administration of Projects and Programs
903	Communication, Education, and Information Delivery

Outcome #2

1. Outcome Measures

volunteers will exhibit increased knowledge of providing age-appropriate agriculture programs to youth.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	40	50

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Numerous adult volunteers have expressed an interest in age-appropriate agriculture programs for youth. Great interest lies within the horticulture field (JMG curriculum) and a growing interest in alternative agriculture continues to develop within the non-agricultural urban clientele. Additionally, by providing youth the skills they need to garden from a young age, it is hoped that they will increase their access to fresh vegetables and fruits.

What has been done

Volunteers have been trained with the JMG curriculum; in areas like literature in the garden, wildlife gardening, and to date over 30 adults have participated and become trainers/educators in classroom and community center sites across West Virginia. Volunteers have also been provided training in the area of alternative agriculture through embryology, small farm livestock enterprises, and small fruit production to name a few.

Results

As a result of the trainings 50 volunteers are exhibiting increased knowledge of age-appropriate agriculture programs through their outreach efforts to more than 400 youth directly served.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
111	Conservation and Efficient Use of Water
124	Urban Forestry
131	Alternative Uses of Land

403	Waste Disposal, Recycling, and Reuse
405	Drainage and Irrigation Systems and Facilities
721	Insects and Other Pests Affecting Humans
806	Youth Development

Outcome #3

1. Outcome Measures

Extension clientele will exhibit knowledge gained from interactions with Extension staff.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	60	80

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Extension clientele continue to request classes and workshops in the areas of horticulture and homeowner conservation topics. Horticulture topics include container gardening, landscape design and maintenance, community gardening, plant pest management and disease control. The ever increasing interest in conservation management has brought about classes like composting, water conservation (irrigation), and the use of various mulch types.

What has been done

Ten classes have been taught by our extension staff and 80 Extension clientele participated in the various classes. These classes have focused on both basic management practices for residential homeowners (such as annual selection, rain gardens, and potted flower demonstration) and more advanced topics for small agricultural business endeavors (such as high tunnel utilization, cut flower growing, crop diversification through introduction of bramble crops).

Results

The Extension clientele are being observed changing their actions as they relate to the various classes from which they gained knowledge from interactions with Extension staff.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
111	Conservation and Efficient Use of Water
124	Urban Forestry
131	Alternative Uses of Land
403	Waste Disposal, Recycling, and Reuse
405	Drainage and Irrigation Systems and Facilities
721	Insects and Other Pests Affecting Humans
806	Youth Development
902	Administration of Projects and Programs
903	Communication, Education, and Information Delivery

Outcome #4

1. Outcome Measures

farmers/growers will demonstrate expanded knowledge of alternative agriculture.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	10	12

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Farmers/growers continue to request classes and workshops in the areas of horticulture and homeowner conservation topics. Alternative agriculture topics include small fruit production, vegetable production, cut flower production, high tunnel construction, and pest/disease management.

What has been done

Six classes have been taught by our extension staff and 12 farmers/growers participated in the various classes. These classes are designed to assist famers and growers in diversifying their

operations and provide more resilient income protection in tough economic times.

Results

The farmers/growers are being observed changing thier actions and adopting practices as they relate to the various classes from which they gained knowledge from interactions with Extension staff.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
111	Conservation and Efficient Use of Water
131	Alternative Uses of Land
405	Drainage and Irrigation Systems and Facilities
721	Insects and Other Pests Affecting Humans
903	Communication, Education, and Information Delivery

Outcome #5

1. Outcome Measures

Residents will adopt the utilization of bio-diesel and participate in production process thereby re-using expended yellow grease in creation of usable fuel product.

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes

Brief Explanation

The summer of 2010 was droughty and presented farmer/growers with limited crops to sale. The west virginia economy is hitting bottom with unemployment rising. Federal apropriations have decreased again and more time is allocated to grant writing.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)

Evaluation Results

Key Items of Evaluation