

# 2011 West Virginia University Extension Plan of Work

Status: Accepted

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## I. Plan Overview

### 1. Brief Summary about Plan Of Work

WVU Extension is consolidating the 18 planned program areas that it reported against in 2009 to 8 plan programs for 2011. These planned programs correspond to the 5 priority areas of the USDA/NIFA as well as three additional planned programs that reflect WVU Extension's established work. The target numbers contained in this Plan of Work are estimates, determined by combining the numbers found in the 2009 Federal Report. As time goes by, they may need to be adjusted to reflect changes in programming and overlapping of program target audiences.

WVUES offers planned programs within four program units:

**Agriculture and natural resources** agents and specialists work with farmers, landowners, and communities to support local agriculture and encourage wise use of natural resources. We are committed to helping small family farmers find ways to increase their profits. We continue to be the trusted local source for answers to home and garden questions. We're committed to ensuring a safe food supply and working with rural landowners to develop alternative enterprises. The planned programs that are offered within this unit include:

- Food Safety
- Sustainable Energy
- Global Food Security and Hunger
- Climate Change

**4-H Youth Development** professionals and programs provide educational, fun, and safe opportunities for young people to make friends, to learn, and to grow. Positive youth development is achieved through weaving essential elements into 4-H programs that promote independence, generosity, and mastery of new skills, all provided in safe and caring environments. The three primary educational areas of emphasis are global education, healthy lifeskills, and science, engineering, and technology. Our literacy programs strengthen children's reading skills and promote the benefits of adults and children reading together. There will be a single planned program within this unit called Youth Development.

**Families and Health** faculty and paraprofessionals help families thrive by providing research-based knowledge, skills, and resources for healthier lifestyle choices. Our nutrition and health education programs teach individuals and families ways to improve their diets by selecting and preparing healthier foods. Through education, we encourage healthy lifestyle choices and the benefits of being physically active. Our family resource management programs help young people and adults understand successful ways to save, spend, and manage resources. We provide education about food preservation, handling, storage, and safety. Adults working with, caring for or parenting young children receive education and materials about developmentally appropriate practices for establishing nurturing environments in which children grow and develop successfully. Our faculty members work with adults to build leadership and interpersonal skills and provide an ongoing avenue for continued learning and global community involvement. The planned programs that are located within this unit are:

**Community Economic and Workforce Development** experts help to promote collaborative community projects and build the capacities of local businesses and governments. We deliver programs that build local leadership capacity; expand and attract employment; improve retail opportunities; and provide information and recommendations on downtown revitalization, tourism, and other aspects of community, economic, and workforce development. In addition, we are helping West Virginia individuals and communities prepare for and cope with disasters. One planned program will be located within this unit, called "Workforce and Community Development."

- Childhood Obesity (nutrition and health)
- Strengthening Families

**Funding:** State funding for WVU Extension Service is currently \$12.24 million (36% of total budget). WVU Extension uses that \$12.24 million to leverage other funds, for a total annual operating budget of approximately \$34 million. We raise 36 percent of our total budget through competitive grants, fees, and individual, foundation, and corporate gifts. County partners (largely county commissions and boards of education) contribute approximately 13 percent of our total budget. The remaining 15 percent of the budget consists of federal (U.S. Department of Agriculture) funds, primarily 3(b)(c)

and EFNEP. Grants and fees have increased from about \$2 million in 1995 to just under \$13 million in 2010.

**A few facts: WVU Extension**

- Date of founding: 1915
- Total direct client contacts, both youths and adults in 2009: 250,004
- Total direct and indirect client contacts, both youths and adults in 2009: 1,969,212
- Number of county agents: 2009: 95
- Number of state specialists: 2009: 64
- Number of youths in 4-H programs in 2009, including camps: 77,152
- Number of youths attending 4-H camps in 2009: 13,496
- Value added to agricultural products through WVU Extension programs: \$5.9 million
- Number of volunteers in 2009: 7,544

**Future Plans:** For the future, WVU Extension Service is positioning resources and programming in key areas as we anticipate and respond to current and emerging statewide needs. Our Small Farm Center, now in its second year, is working to address to consumer concern and interest in food safety, expanding channels for locally grown foods, and increasing the number of producers to meet increased demands at farmers markets. We are currently recruiting for a Family Obesity Specialist to create programs in health, nutrition and disease prevention for West Virginia youth and families. We also anticipate a grant from the Dept. of Defense that will allow us to expand our expertise in 4-H camp programming and resources through the establishment of the Mountaineer Camping Institute. Our Web site has been redesigned and analytics provide key insights into the types of information our constituents' desire and how we can match their needs with our educational expertise.

**Estimated Number of Professional FTEs/SYs total in the State.**

Year	Extension		Research	
	1862	1890	1862	1890
2011	163.0	0.0	0.0	0.0
2012	164.0	0.0	0.0	0.0
2013	165.0	0.0	0.0	0.0
2014	166.0	0.0	0.0	0.0
2015	167.0	0.0	0.0	0.0

**II. Merit Review Process**

**1. The Merit Review Process that will be Employed during the 5-Year POW Cycle**

- Internal University Panel
- External Non-University Panel

**2. Brief Explanation**

Merit Review is done in the following way: Each unit director (agriculture and natural resources, 4-H youth development, families and health and community workforce education and development) reviews the data collected throughout the reporting system each year and approves a program summary, written by the program team leaders and other specialists with assistance from the evaluation specialist. That summary report is used to report to NIFA and USDA. Each program area team develops a plan of work that specialists and agents use to plan their own plans of work. Membership in teams is optional, but most faculty members join one or more teams. Members help develop educational programs and do evaluation and research. The unit directors, at their weekly leadership meeting, discuss the direction of WVU Extension programs, develop plans of work, and collaborate with each other on mutually achievable goals and objectives. This year, WVU ES is involved in creating a new reporting system that will

allow Extension educators to report outputs and outcomes based on their plan of work. This new system will allow WVU ES to have a more accurate picture of the work that is being done in WV, and be better able to plan for the future. It is also hoped that the amount of time spent on promotion and tenure activities each year will be greatly reduced. Efforts are now underway to develop measurable objectives that will help faculty aim at achieving outcomes rather than simply carrying out activities. These objectives are based on the new priority areas of the USDA.

### III. Evaluation of Multis & Joint Activities

#### 1. How will the planned programs address the critical issues of strategic importance, including those identified by the stakeholders?

West Virginia ranks near the top in the percentage of low-income citizens. It's citizens also rank high on lists of health and social risks such as obesity, heart disease and other chronic illnesses, and drug and alcohol abuse. At the same time, West Virginia is rich in natural resources, particularly wood and wood products. It's citizens have a long tradition of making a living from small farms and adding value to produce and other natural products. The people of West Virginia cherish family values and social attributes such as loyalty, patriotism, and citizenship. The new planned programs help to combine WVU Extension's 80 or more initiatives into groups that best address the needs of West Virginians. In particular, climate changes and sustainable energy are particularly important with regard to harnessing the potential of our natural resources. The shift from health and nutrition to childhood obesity helps to focus our programs on developing healthy children who will grow to be healthy adults. In addition, combining a number of programs into one planned program called youth development, helps us to focus on developing healthy youth who will become healthy adults.

#### 2. How will the planned programs address the needs of under-served and under-represented populations of the

WVU focuses its efforts to serve under-served and under-represented populations through an extension-wide "Serving the Underserved" program team. This team monitors extension programs including multi state and integrated programs for their accessibility to under-served populations and works on ways to bring proven programs to under-served populations. Faculty and staff from other WVU Colleges sit as active members of this Extension Program Team. WVU also partners with WVSU to increase service to the under-served in West Virginia.

#### 3. How will the planned programs describe the expected outcomes and impacts?

WVU's planned programs will use the logic model to describe outcomes and impacts of programming. All faculty and program teams submit yearly plans of work that identify metrics for outcomes and impacts. All faculty and program teams also submit annual reports that indicate outcomes and impacts of their work. Significant professional development resources have been and will be devoted to building capacity in the organization for measuring impact. A new reporting system will be implemented in 2010 that will make it easier and more efficient to report on planned program successes.

#### 4. How will the planned programs result in improved program effectiveness and/or efficiency?

Each of WVU's planned programs undergoes a systematic annual program planning and review process involving individual faculty, supervisors, program team members, and central administration. This process drives programs toward continuous improvement in effectiveness and efficiency. An annual review process determines whether whole programs should be continued for an additional year.

### IV. Stakeholder Input

#### 1. Actions taken to seek stakeholder input that encourages their participation

- Use of media to announce public meetings and listening sessions
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to non-traditional stakeholder individuals
- Targeted invitation to selected individuals from general public

#### **Brief explanation.**

WVU Extension engages State Level- Extension Service Visiting Committees in the process of giving input on Extension programs and services.

The purpose of the WVU Extension Visiting Committee is to provide advocacy, program advice, and resource development for the WVU Extension Service. Membership consists of broad representation of programs and constituent groups, including but not limited to WVU Jackson's Mill, 4-H, Agriculture and Nature Resources,

Community, Economic, & Workforce Development, Families and Health, faculty and staff, CEOs, Master Gardeners, and counties. Membership is determined by the Director's Office, and meetings are announced via targeted invitations to selected individuals from traditional and nontraditional stakeholder groups. County Level - Each county is mandated by West Virginia State Code to organize a County Extension Service Committee. These committees are made up of representatives of traditional stakeholder groups with up to three positions for at-large representatives or individuals representing nontraditional audiences. Extension Service Committees provide program guidance, advocacy, and administrative support to county faculty and staff. Meetings of County Extension Service Committees are subject to WV's open meeting laws. Meetings of the County Extension Service Committees are announced through local media outlets and with targeted mailings to members.

**2(A). A brief statement of the process that will be used by the recipient institution to identify individuals and groups stakeholders and to collect input from them**

**1. Method to identify individuals and groups**

- Use Advisory Committees
- Use Internal Focus Groups

**Brief explanation.**

Program advisory committees, with input from faculty and administration, will be used to identify both traditional and nontraditional stakeholders who are invited to all relevant program related planning and evaluation meetings.

**2(B). A brief statement of the process that will be used by the recipient institution to identify individuals and groups who are stakeholders and to collect input from them**

**1. Methods for collecting Stakeholder Input**

- Meeting with traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Meeting with the general public (open meeting advertised to all)

**Brief explanation.**

Each week, the WVUES leadership team (Associate Provost, Director of Communications, Assistant Director of Resources, Director of Operations, Finance Director, and Unit Directors meet to discuss the feedback that they have received from multiple sources. This information is used to improve operations and programming and often to address problems raised by our constituency. The budget is often a focus of discussion and decisions are made in response to stakeholder feedback, such as the ones described earlier in this document about focusing on county needs over state administrative needs. Assessment data is processed and the findings are used by most of our program initiatives. Teams have the responsibility of making recommendations to WVUES administration about new programming based on emerging needs in the state.

**3. A statement of how the input will be considered**

- In the Budget Process
- To Identify Emerging Issues
- To Set Priorities

**Brief explanation.**

Stakeholder input will be used in the development of statewide program priorities, program team assignment documents, and faculty assignment documents, and to aid in the decision-making process related resource allocation and staffing needs.

**V. Planned Program Table of Content**

<b>S. No.</b>	<b>PROGRAM NAME</b>
1	Childhood Obesity
2	Youth Development
3	Workforce and Community Development
4	Global Food Security and Hunger
5	Strengthening Families
6	Climate Change
7	Food Safety
8	Sustainable Energy

## V(A). Planned Program (Summary)

### Program # 1

#### 1. Name of the Planned Program

Childhood Obesity

#### 2. Brief summary about Planned Program

The Childhood Obesity planned program has three major areas of emphasis: family nutrition, healthy lifestyles, and diabetes and other chronic disease prevention.

Family Nutrition Program -- teaches food and nutrition by using the USDA's MyPyramid and preparing balanced meals. The objectives are to improve food safety, fostering food security, enhance food consumerism, and increase physical activity. Youth Family Nutrition Program - During the school year, each child participates in nine educational sessions lasting 45 minutes. Each lesson includes take home newsletters. During the summer, each child participates in four sessions lasting 30 minutes each. Key messages focus on basic nutrition and physical activity.

4-H Health Initiative - Given the prevalence of poor health practices and outcomes among West Virginians, it is critical that 4-H promotes healthy lifestyle decisions, such as dental health, physical activity, eating healthy, and safety. The program model centers around 4-H Health Officers (youths selected by their 4-H club members) who are trained and supported to lead motivational, fun club activities.

Camp NEW You: Camp NEW (Nutrition, Education, Wellness) You is an innovative program that was designed to help youth and their parents identify and practice lifestyle changes to promote increased physical activity and good nutrition. The program consisted of a two-week summer residency program with a variety of educational sessions for children and their parents; developmentally appropriate activities; groups counseling; enrichment activities; and a structured, 12-month follow-up intervention designed to provide continued support for families.

Community Education Outreach Service (CEOS) Health Motivator: The goal of this project is to engage CEOS leaders (aka CEOS Club Health Motivators) in leading health activities to educate and motivate club participants to practice healthy behaviors.

Taking Charge -- The goal of the *Taking Charge program is to increase the capacity of informal and formal community networks with sustainable, innovative behavior change strategies to motivate older adults to self-manage chronic conditions, improve healthy lifestyles, and enhance their independence.*

Women's Heart Health: The goal of this program is to assist women in becoming informed about heart health. Program objectives are to improve the following among West Virginia women: 1) ability to modify daily health habits to reduce risks of heart disease; 2) ability to assess their personal behaviors; 3) knowledge about heart disease; 4) ability to understand personal risk factors and talk to a health care provider about risks; ability to recognize symptoms of heart attack and stroke and respond appropriately. Diabetes Education & Dining with Diabetes -- The Diabetes Education program improves the health of WV people by 1) enhancing the capacity of Extension educators and healthcare partners to impart diabetes education and 2) by increasing knowledge of diabetes and its complications among people with diabetes and their families, and 3) by increasing their ability to manage diabetes. The program includes Dining with Diabetes, a community-based education program for adults with diabetes and their families and the WV Diabetes Symposium and Workshop, Bridging the Gap with Education.

**3. Program existence** : Mature (More than five years)

**4. Program duration** : Long-Term (More than five years)

**5. Expending formula funds or state-matching funds** : Yes

**6. Expending other than formula funds or state-matching funds** : Yes

**V(B). Program Knowledge Area(s)**

## 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
702	Requirements and Function of Nutrients and Other Food Components	10%			
703	Nutrition Education and Behavior	30%			
724	Healthy Lifestyle	30%			
801	Individual and Family Resource Management	10%			
802	Human Development and Family Well-Being	10%			
806	Youth Development	10%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)****1. Situation and priorities**

Obesity has become an epidemic in the US. Lack of physical activity, poor nutrition habits, and an environment that promotes unhealthy lifestyles must be addressed if we're to address the obesity epidemic. Research has shown a correlation between lower socioeconomic status and overweight/obesity. Several federal programs provide funding to target low-income families. The Family Nutrition Program has multiple stakeholders at the state and federal levels. Diabetes in West Virginia is reaching epidemic levels. West Virginia is currently ranked first in the nation with a prevalence rate of 10.9% among adults. Education is needed to reduce the number of new cases and to prevent or reduce the complications from diabetes in West Virginia residents. Factors such as the number of elderly in WV, prevalence of chronic disease such as type 2 diabetes and cardiovascular disease, the lack of access to grocery stores in rural areas and the increased number of meals consumed away from home contribute to the pressing need for food safety education. WV had the highest rate of senior population in the US and the second highest rate of sedentary adults. Efforts need to be made to encourage exercise for seniors in a safe and secure environment. WV had the highest rate of senior population in the US and the second highest rate of sedentary adults. Efforts need to be made to encourage exercise for seniors in a safe and secure environment.

**2. Scope of the Program**

- In-State Extension

**V(D). Planned Program (Assumptions and Goals)****1. Assumptions made for the Program**

The Family Nutrition Program uses paraprofessionals to provide a community-based approach of reaching low-income families and helping them to change their behaviors. FNP also uses a social marketing approach made available through the Food Stamp Education, Nutrition networks. Both practices have a strong research base and help focus efforts both at the state and local levels. Research has shown that community coalitions can empower people to make healthy lifestyle changes, which can reduce the prevalence of complications from diabetes and improve the health of people with diabetes. Counties have formed coalitions resulting in support groups that provide ongoing education to the participants. Continued support is expected from CDC through the West Virginia Diabetes Prevention and Control Program. Traditionally, the county Extension office is regarded as a safe and appropriate place for food-safety information. Reduce the incidence of communicable diseases among WV children and families through innovative and interactive educational program. Teach children at a young age the importance of handwashing as a lifetime practice. During the three years (2001-2004) when funding was available for the project, Germ-city units were purchased that will continue to be available for years and, thereby, give sustainability to the program. "A New You: Health for Every Body" is a reasonable, sensible approach to maintaining life-long healthy practices. The program has been extensively tested and proven to be effective in

several states in the past few years. Since the country is moving toward a chronic disease prevention model of health, it will be possible to secure sustained funding for this program. Community coalitions can provide seniors with a safe, secure place to exercise and form health awareness groups. WVU Extension has long history of training and providing support to volunteers. "Active for Life" leaders are trained in their own communities and WVU provides continued support and resources. "Animals and Handwashing" is a very simple but effective and practical approach to encouraging children and their parents to wash their hands after touching animals. County fair boards have indicated a strong interest in participating in this project. Efforts to secure funding through the WV legislature are currently under way.

**2. Ultimate goal(s) of this Program**

- 1) Improve the overall health of program participants.
- 2) Increase knowledge of nutrition and health management among WV families.
- 3) Change attitudes and behaviors of West Virginia citizens about nutrition, food safety, and health management.
- 4) Improve Extension's capacity for implementing nutrition and health management programs in West Virginia.
- 5) Enhance WVU Extension's reputation as a leader in Diabetes education.

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	16.0	0.0	0.0	0.0
2012	16.0	0.0	0.0	0.0
2013	16.0	0.0	0.0	0.0
2014	16.0	0.0	0.0	0.0
2015	16.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

The nutrition and health planned program includes the following initiatives: the Family Nutrition Program, 4-H Health Initiative, Camp NEW You, CEOS Health Motivator, Women's Heart Health, Taking Charge, and Diabetes Education and Dining with Diabetes.

Activities include: adult and youth nutrition education classes and workshops, newsletters, visual media, health fairs, telephone interventions, and cooking schools. A national Diabetes conference for healthcare providers and extension educators is held each year, a platform for interaction among healthcare professionals working in the field of diabetes.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

<b>Direct Methods</b>	<b>Indirect Methods</b>
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- |                                                                                                                                                                                                                        |                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> <li>● Other 1 (clinical testing)</li> </ul> | <ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites</li> <li>● Other 1 (radio)</li> <li>● Other 2 (newspaper)</li> </ul> |
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**3. Description of targeted audience**

Primary target audiences include: low-income West Virginia adults and youth, West Virginians who have diabetes and their caregivers, healthy older adults, healthcare professionals and Extension educators.

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	12000	500000	40000	230000
2012	12120	505000	40400	232000
2013	12240	510000	40800	234000
2014	12360	515000	41200	236000
2015	12480	520000	41260	238000

**2. (Standard Research Target) Number of Patent Applications Submitted**

**2011:0                      2012:0                      2013:0                      2014:0                      2015:0**

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2011	1	0	0
2012	1	0	0
2013	2	0	0
2014	2	0	0
2015	2	0	0

## V(H). State Defined Outputs

### 1. Output Target

- Number of educational activities

**2011:1500**      **2012:1515**      **2013:1530**      **2014:1545**      **2015:1560**

- Number of educational materials created or updated

**2011:505**      **2012:510**      **2013:515**      **2014:520**      **2015:525**

- Number of educational materials distributed

**2011:300000**      **2012:303000**      **2013:306000**      **2014:309000**      **2015:312000**

- Number of professional presentations

**2011:15**      **2012:15**      **2013:16**      **2014:16**      **2015:16**

- Number of outside organizations collaborating within this program area

**2011:60**      **2012:61**      **2013:62**      **2014:63**      **2015:64**

**V(I). State Defined Outcome**

O. No.	Outcome Name
1	Number of participants who increase their knowledge
2	Number of participants who improve or increase skills
3	Number of participants who change their attitudes or opinions
4	Number of participants who are motivated to change their behavior
5	Number of participants who change a behavior or use a new skill
6	Number of participants who train others
7	Amount of money raised by participants to support the program
8	Number of groups or organizations that change their procedures and/or policies
9	Number of new groups or organizations that are established or enhanced
10	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
11	Number of economic improvements

**Outcome # 1**

**1. Outcome Target**

Number of participants who increase their knowledge

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:**30000      **2012:**30300      **2013:**30600      **2014:**31200      **2015:**31500

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Number of participants who improve or increase skills

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:**15000      **2012:**15150      **2013:**15300      **2014:**15450      **2015:**15600

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Number of participants who change their attitudes or opinions

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:3000                      2012:3030                      2013:3045                      2014:3060                      2015:3075**

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 4**

**1. Outcome Target**

Number of participants who are motivated to change their behavior

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:3000                      2012:3030                      2013:3060                      2014:3120                      2015:3150**

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 5**

**1. Outcome Target**

Number of participants who change a behavior or use a new skill

**2. Outcome Type :** Change in Action Outcome Measure

**2011:300                      2012:303                      2013:306                      2014:309                      2015:312**

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior

- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 6**

**1. Outcome Target**

Number of participants who train others

**2. Outcome Type : Change in Action Outcome Measure**

2011:150	2012:152	2013:154	2014:156	2015:168
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**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 7**

**1. Outcome Target**

Amount of money raised by participants to support the program

**2. Outcome Type : Change in Action Outcome Measure**

2011:1000	2012:1010	2013:1020	2014:1030	2015:1040
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**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 8**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:2                      2013:2                      2014:3                      2015:3**

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 9**

**1. Outcome Target**

Number of new groups or organizations that are established or enhanced

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 10**

**1. Outcome Target**

Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 11**

**1. Outcome Target**

Number of economic improvements

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:2                      2015:2**

**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)



## **Description**

Competing programmatic challenges: Extension educators are forced to balance many diverse program areas in their limited time and financial resources. The economy will affect the ability of citizens to attend programs and health and mental status will affect program participation. Extension educators need to be abreast of government regulation related to food safety. Natural disasters, such as severe snow storms and floods would cause cancellations. Available funding will impact ability to provide programming, especially for low-income target audiences. Government appropriations may affect the Family Nutrition Program and other initiatives.

### **V(K). Planned Program (Evaluation Studies and Data Collection)**

#### **1. Evaluation Studies Planned**

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention

## **Description**

Dining with Diabetes program conducts pre-, post-, and during-sessions evaluations of the participants that track knowledge and behavior changes and changes in clinical results. All training programs conduct post-assessments. FNP uses the EFNEP Evaluation and Reporting System and FSNE Education and Administrative Reporting System. A New You conducts pre- and post- evaluation of attitudes and behaviors.

#### **2. Data Collection Methods**

- Sampling
- Whole population
- Mail
- Telephone
- On-Site
- Structured
- Unstructured
- Observation
- Tests

## **Description**

Pre- and post-questionnaires administered by the educators measure knowledge and behavior changes. Clinical tests (such as Hemoglobin A1c and Blood Pressure) are used with the Dining with Diabetes Program. FNP uses federal reporting tools.

**V(A). Planned Program (Summary)**

**Program # 2**

**1. Name of the Planned Program**

Youth Development

**2. Brief summary about Planned Program**

The WVU youth development plan of work is composed of three emphasis areas:

Global education programs at WVU Extension represent an important approach and delivery system for supporting the work of Extension faculty. For example, targeting school system professionals helps Extension to support our children, youth, and families goals. Conducting and coordinating graduate courses is a direct entrée into building collaboration with academic faculty and departments. On campus educational programs for faculty, students, staff, and school age children raise Extension's visibility and credibility in the academic community. Initiatives include CHISP, a Spanish immersion program for students, the WVU International 4-H Exchange Program (IFYE), the WVU Cultural Attache Program, the WVU and Univaersity of Guanajuato (Mexico) 4-H Volunteer Service Project, and the WV 4-H Global Challenge.

Lifeskill Development programs at WVU Extension include a host of initiatives that have at their central core the development of lifeskills that youth need to learn in order to develop into responsible adults. Some of those lifeskills include accepting other, communication, leadership, healthy nutrition and hygiene, and citizenship. Activities include 4-H clubs and camps, afterschool programs, literacy programs, and leadership/citizenship activities. Important initiatives include the 4-H Health Motivator Program, Health Rocks, ATV Safety, and Energy Express (summer literacy program)

Science, Engineering, and Technology programs at WVU Extension hope to create, in youth, an interest and love of science and technology, as well as increased skills in these areas. WV 4-Hers are introduced to a myriad of SET related content at multiple county and state 4-H venues. Our CYFAR program is geared toward developing science skills in afterschool programs for low-income youth.

**3. Program existence :** Mature (More then five years)

**4. Program duration :** Long-Term (More than five years)

**5. Expending formula funds or state-matching funds :**Yes

**6. Expending other than formula funds or state-matching funds :** Yes

**V(B). Program Knowledge Area(s)**

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
806	Youth Development	100%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)**

**1. Situation and priorities**

Many of West Virginia's children live in poverty. Of the 402,393 children in West Virginia, 97,781 (24.3%) live in poverty. Only four states have higher percentages. Kids Count data on key indicators of child well-being report that 50.2% of the children in West Virginia live in low-income families. Many parents do not have jobs that enable them to provide even the most basic needs for their children. For example, 56% of West Virginia's children live with parents who do not have full-time, year-round employment. The unemployment rate in the entire state is 4.9%.

West Virginia has many isolated and rural communities. Providing opportunities for youth is a challenge. The 4-H model works well in reaching youths when transportation and poverty are issues that impact families. Volunteer leaders host youths

at community sites that are close to the 4-Hers home; no dues or fees are charged; and most of the activities and events are inexpensive. It is a model that works well for West Virginia communities.

**2. Scope of the Program**

- In-State Extension

**V(D). Planned Program (Assumptions and Goals)**

**1. Assumptions made for the Program**

Extension agents who work with 4-H youth should be situated at the local level. In WV we have a 4-H agent in each of the state's 55 counties. Communities throughout the state recognize the Extension agent as a resource and advocate in the area of youth development.

The 4-H program includes activities in which youths learn through 4-H projects and citizenship and leadership experiences. The curricula are supported through the efforts of local Extension agents and the support of statewide Extension specialists.

4-H supports the development of the essential elements for youth development: 1) Belonging - caring relationships, 2) Mastery - constructive learning experiences, 3) Independence - leadership opportunities, and 4) Generosity - opportunities to give back to others through service.

Research conducted at West Virginia University in recent years suggests that 4-H members obtain considerable enjoyment from club activities and acquire skills that are beneficial to their person, educational and occupational lives. Leadership experiences provided by 4-H, such as conducting meetings and public speaking, are considered to be of great value by former members.

**2. Ultimate goal(s) of this Program**

1. Provide youth with opportunities to safely develop and practice life skills essential for success in their society.
2. Develop, implement and maintain educational material supporting the National 4-H Mandates - Science, Engineering & Technology; Healthy Lifestyles; and Citizenship.
3. Dedicate appropriate time and effort developing and evaluating meaningful youth programming.

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	34.0	0.0	0.0	0.0
2012	34.0	0.0	0.0	0.0
2013	34.0	0.0	0.0	0.0
2014	34.0	0.0	0.0	0.0
2015	34.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

The WVU youth development plan of work is composed of three emphasis areas:

Global education programs at WVU Extension represent an important approach and delivery system for supporting the work of Extension faculty. For example, targeting school system professionals helps Extension to support our children, youth, and families goals. Conducting and coordinating graduate courses is a direct entrée into building collaboration with academic faculty and departments. On campus educational programs for faculty, students, staff, and school age children raise Extension's visibility and credibility in the academic community. Initiatives include CHISP, a Spanish immersion program for students, the WVU Internatinal 4-H Exchange Program (IFYE), the WVU Cultural Attache Program, the WVU and Univaersity of Guanajuato (Mexico) 4-H Volunteer Service Project, and the WV 4-H Global Challenge.

Lifeskill Development programs at WVU Extension include a host of initiatives that have at their central core the development of lifeskills that youth need to learn in order to develop into responsible adults. Some of those lifeskills include accepting other, communication, leadership, healthy nutrition and hygiene, and citizenship. Activities include 4-H clubs and camps, afterschool programs, literacy programs, and leadership/citizenship activities. Important initiatives include the 4-H Health Motivator Program, Health Rocks, ATV Safety, and Energy Express (summer literacy program)

Science, Engineering, and Technology programs at WVU Extension hope to create, in youth, an interest and love of science and technology, as well as increased skills in these areas. WV 4-Hers are introduced to a myriad of SET related content at multiple county and state 4-H venues. Our CYFAR program is geared toward developing science skills in afterschool programs for low-income youth.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

<b>Direct Methods</b>	<b>Indirect Methods</b>
<ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● Web sites</li> </ul>

**3. Description of targeted audience**

Youths 9 to 21. More than 49,000 youth are 4-H members and more than 6,400 adult volunteers work directly and indirectly with them.

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	<b>Direct Contact Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
2011	17000	68000	90000	100000
2012	17200	68700	90900	101000
2013	17400	69400	91800	102000
2014	17600	70100	92700	103000
2015	17800	70800	93200	104000

**2. (Standard Research Target) Number of Patent Applications Submitted**

**2011:0****2012:0****2013:0****2014:0****2015:0****3. Expected Peer Review Publications**

<b>Year</b>	<b>Research Target</b>	<b>Extension Target</b>	<b>Total</b>
2011	0	2	2
2012	0	2	2
2013	0	2	2
2014	0	3	3
2015	0	3	3

**V(H). State Defined Outputs****1. Output Target**

- Number of educational activities

**2011:600****2012:606****2013:612****2014:618****2015:624**

- Number of educational materials created or updated

**2011:25250****2012:25500****2013:25750****2014:26000****2015:26250**

- Number of outside organizations collaborating within this program area

**2011:500****2012:505****2013:510****2014:515****2015:520**

- Number of educational materials created or updated

**2011:1200****2012:1212****2013:1224****2014:1248****2015:1260**

- Number of professional presentations

**2011:15****2012:15****2013:16****2014:16****2015:17**

**V(I). State Defined Outcome**

O. No.	Outcome Name
1	Number of participants who increase their knowledge
2	Number of participants who improve or increase skills
3	Number of participants who change their attitudes or opinions
4	Number of participants who are motivated to change their behavior
5	Number of participants who change a behavior or use a new skill
6	Number of participants who train others
7	Number of groups or organizations that change their procedures and/or policies
8	Amount of money raised by participants to support the program
9	Number of new groups or organizations that are established or enhanced
10	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
11	Number of economic improvements
12	Number of environmental improvements

**Outcome # 1**

**1. Outcome Target**

Number of participants who increase their knowledge

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:75000                      2012:75750                      2013:76500                      2014:77250                      2015:78000**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Number of participants who improve or increase skills

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:25000                      2012:25250                      2013:25500                      2014:25750                      2015:25800**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Number of participants who change their attitudes or opinions

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:10000                      2012:10100                      2013:10200                      2014:10300                      2015:10400**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 4**

**1. Outcome Target**

Number of participants who are motivated to change their behavior

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:**10000      **2012:**10100      **2013:**10200      **2014:**10300      **2015:**10400

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 5**

**1. Outcome Target**

Number of participants who change a behavior or use a new skill

**2. Outcome Type :** Change in Action Outcome Measure

**2011:**5000      **2012:**5050      **2013:**5100      **2014:**5150      **2015:**5200

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 6**

**1. Outcome Target**

Number of participants who train others

**2. Outcome Type :** Change in Action Outcome Measure

**2011:**1000      **2012:**1010      **2013:**1020      **2014:**1030      **2015:**1040

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 7**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies



**2. Outcome Type : Change in Condition Outcome Measure**

**2011:55                      2012:56                      2013:57                      2014:58                      2015:59**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 8**

**1. Outcome Target**

Amount of money raised by participants to support the program

**2. Outcome Type : Change in Action Outcome Measure**

**2011:20000                      2012:20200                      2013:20400                      2014:20600                      2015:20800**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 9**

**1. Outcome Target**

Number of new groups or organizations that are established or enhanced

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:5                      2012:6                      2013:7                      2014:8                      2015:9**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 10**

**1. Outcome Target**

Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated

**2. Outcome Type : Change in Condition Outcome Measure**

2011:1                      2012:1                      2013:1                      2014:1                      2015:1

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 11**

**1. Outcome Target**

Number of economic improvements

**2. Outcome Type : Change in Condition Outcome Measure**

2011:1                      2012:1                      2013:1                      2014:1                      2015:1

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 12**

**1. Outcome Target**

Number of environmental improvements

**2. Outcome Type : Change in Condition Outcome Measure**

2011:1                      2012:1                      2013:1                      2014:1                      2015:1

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

- Economy
- Appropriations changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges

- Populations changes (immigration, new cultural groupings, etc.)
- Other (Funding sources and funding oppo)

### **Description**

West Virginia is a state of increasing poverty, decreasing populations, and decreasing school-age population. Therefore, program resources are a constant challenge.

## **V(K). Planned Program (Evaluation Studies and Data Collection)**

### **1. Evaluation Studies Planned**

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Case Study
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention

### **Description**

Evaluation plans include the development tools to assess the extent to which the essential elements are developed in youth through participation in the 4-H program.

Evaluation plans also include process evaluations of 4-H programs and activities.

### **2. Data Collection Methods**

- Sampling
- Whole population
- Mail
- Telephone
- On-Site
- Structured
- Unstructured
- Case Study
- Observation
- Journals

### **Description**

## **V(A). Planned Program (Summary)**

### **Program # 3**

#### **1. Name of the Planned Program**

Workforce and Community Development

#### **2. Brief summary about Planned Program**

The workforce and community development planned program includes initiatives in adult leadership development, community development, workforce development, and culture and tourism.

Activities in adult leadership development include training Extension faculty and adult volunteers in regional trainings; training CEOS adult volunteers in public speaking and other leadership techniques; completing; training community volunteer managers in the basics of effective management of volunteer programs; conducting team leadership and youth/adult partnership conferences; conducting one session on leadership resources at the Extension Professional Development Day each year; participating in other leadership professional development opportunities; partnering with other leadership organizations in West Virginia; holding leadership workshops for West Virginia citizens; providing 30 hours of Master Gardener (MG) classes for every trained MG; managing MG volunteer activities and recognizing their service; providing leadership development and other advanced MG training.

Activities in community development planned program includes the following initiatives: The First Impressions Program, Government Planning & Public Policy, and Business Retention & Expansion, Community Development East. Local government officials and community-based organizations across the state are interested in initiating downtown revitalization programs to improve their community's capacity to attract and retain businesses and make it a more desirable place to live, work, and visit. Extension specialists and agents are being called upon to provide communities with information and new research-based programs related to downtown revitalization, community appearance and design, and community and government planning.

Activities in workforce development include: Advanced Fire Officer Training, Aircraft Crash Rescue Firefighting, Institute for Labor Studies and Research, Safety and Health Extension, and WV State Fire Institute. Programs

Activities in culture and tourism include initiatives at fairs and festivals held locally and at WVU Jackson's Mill Conference Center, "Historic Areas," "History Hits the Road," "Tourism, and Culture and Arts, working with local festival boards and the WV Fairs and Festivals Association.

**3. Program existence** : Mature (More than five years)

**4. Program duration** : Long-Term (More than five years)

**5. Expending formula funds or state-matching funds** : Yes

**6. Expending other than formula funds or state-matching funds** : Yes

**V(B). Program Knowledge Area(s)**

## 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
402	Engineering Systems and Equipment	10%			
602	Business Management, Finance, and Taxation	10%			
608	Community Resource Planning and Development	20%			
723	Hazards to Human Health and Safety	20%			
724	Healthy Lifestyle	10%			
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	10%			
805	Community Institutions, Health, and Social Services	10%			
806	Youth Development	10%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)****1. Situation and priorities**

1. Adults in West Virginia need to training to fill important leadership and volunteer positions in Extension and other non-profit organizations. WV citizens are trained to be leaders through the 4-H, CEOS, and Master Gardner programs.

2. In West Virginia employers, workers, and unions need training at a reasonable cost. Extension has resources to provide occupational safety and health services and educational classes for veteran and novice union representatives, workers, union members and leaders, and other activists. We provide residential programs in collaboration with specific labor unions and organizations and networking opportunities for program participants. Classes are on safety and health topics relevant to workers and their workplaces; training for young workers learning employment skills and labor history.

3. Local government officials and community-based organizations across the state are interested in initiating downtown revitalization programs to improve their community's capacity to attract and retain businesses and make it a more desirable place to live, work, and visit. Extension specialists and agents are being called upon to provide communities with information and new research-based programs related to downtown revitalization, community appearance and design, and community and government planning.

4. Fairs or festivals are an important part of West Virginian life. Extension assists this important economic growth area of the state by recruiting volunteer visitors, conducting site visits, writing recommendations and following progress, and working with local festival boards and the WV Fairs and Festivals Association.

**2. Scope of the Program**

- In-State Extension
- In-State Research
- Multistate Integrated Research and Extension

**V(D). Planned Program (Assumptions and Goals)****1. Assumptions made for the Program**

We know that standards exist for workforce training and we can help students meet them with existing curriculum. Funding is and always has been an issue. RESA receives money to put on classes for free and WVU does not, and fire departments typically do not have a lot of money to spend on training. We have instructors that

we train all the time who have the desired skills and abilities to do this training.

We have the ability to do the training on aircraft crash rescue to national consensus standards and the prop to do the training. Airports must have this training and pay for it so the funding is secure. We have professional staff throughout the state who can help the program coordinator with the training.

West Virginia University Safety and Health Extension (WVUSHE) safety and health professionals are experienced and knowledgeable in the areas of teaching, research, and service. Interventions and solutions implemented by WVUSHE professionals are problem- or employer-specific and based on best practices accepted by OSHA and the safety profession in general

The faculty involved with the Institute for Labor Studies and Research program (ILSR) are knowledgeable, innovative, and dedicated to meeting the needs of ILSR's clientele. The labor movement is simultaneously traditional and progressive, so the faculty must be able to address both traditional and evolving needs. Through a very close-knit working relationship with our constituents, and with the support of WVU Extension, ILSR is able to develop appropriate need-oriented programs and perform relevant research. The exceptional ability of the ILSR faculty, the close relationship with ILSR's constituency, and WVU Extension's unwavering support will ensure the ILSR program's success.

**2. Ultimate goal(s) of this Program**

1) to lower incidence of loss of life and property in West Virginia by training firefighters and personnel at large and small airports.

2) to improve workforce safety by developing a state, regional, and university workforce capable of effectively addressing situations involving exposure to safety and/or health hazards.

3) to improve West Virginia's economy by saving lives and reducing injuries, illnesses, and related costs.

4) to prepare current and future labor leaders to be effective and practical representatives of their in the workplace

5) to strengthen the trade union movement in West Virginia by increase the knowledge of labor's role in history and providing working men and women with a contextual framework within which they can better understand the American workforce

6) to increase labor's historical representation in county schools and youth-oriented programs

7) to develop the reputation of the Extension Service as a credible provider of leadership development education

8) to increase knowledge and awareness of Extension professionals, community groups and individuals of the value and importance of enhanced leadership skills

9) to develop more people willing to assume leadership roles in their communities, and make existing and emerging leaders more effective in what they do

10) to strengthen individuals and families through continuing education, leadership development and community involvement for the betterment of all

11) to strengthen the faculty and staff skills, knowledge and techniques to develop an effective volunteer management

12) to improve WV community's capacity to attract and retain businesses and make it a more desirable place to live, work, and visit

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	31.0	0.0	0.0	0.0
2012	31.0	0.0	0.0	0.0
2013	31.0	0.0	0.0	0.0
2014	31.0	0.0	0.0	0.0
2015	31.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

The workforce and community development planned program includes initiatives in adult leadership development, community development, workforce development, and culture and tourism.

Activities in adult leadership development include training Extension faculty and adult volunteers in regional trainings; training CEOS adult volunteers in public speaking and other leadership techniques; completing; training community volunteer managers in the basics of effective management of volunteer programs; conducting team leadership and youth/adult partnership conferences; conducting one session on leadership resources at the Extension Professional Development Day each year; participating in other leadership professional development opportunities; partnering with other leadership organizations in West Virginia; holding leadership workshops for West Virginia citizens; providing 30 hours of Master Gardener (MG) classes for every trained MG; managing MG volunteer activities and recognizing their service; providing leadership development and other advanced MG training.

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Activities in workforce development include: Advanced Fire Officer Training, Aircraft Crash Rescue Firefighting, Institute for Labor Studies and Research, Safety and Health Extension, and WV State Fire Institute. Programs

Activities in culture and tourism include initiatives at fairs and festivals held locally and at WVU Jackson's Mill Conference Center, "Historic Areas," "History Hits the Road," "Tourism, and Culture and Arts, working with local festival boards and the WV Fairs and Festivals Association.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites</li> </ul>

**3. Description of targeted audience**

Firefighters, EMS, law enforcement, first responders, upper management in the fire services, airport personnel, the general population, people who seek to implement or assist in the implementation of individual or employer compliance with state, federal, and local safety and health legislation, employers/owners of businesses, volunteers, immigrants, migrant workers, youth, disabled community members, and older adults.

Local businesses, community-based organizations, elected officials, community leaders, community residents, fair and festivals boards, WVU ES faculty and staff

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	<b>Direct Contact Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
2011	30000	150100	5000	40000
2012	30300	155200	5050	40400
2013	30600	155300	5100	40800
2014	30900	155400	5150	41200
2015	31200	155500	5200	41600

**2. (Standard Research Target) Number of Patent Applications Submitted**

**2011:0                      2012:0                      2013:0                      2014:0                      2015:0**

**3. Expected Peer Review Publications**

<b>Year</b>	<b>Research Target</b>	<b>Extension Target</b>	<b>Total</b>
2011	2	0	0
2012	2	0	0
2013	2	0	0
2014	2	0	0
2015	0	0	0



## V(H). State Defined Outputs

### 1. Output Target

- Number of educational activities

<b>2011:1500</b>	<b>2012:1515</b>	<b>2013:1530</b>	<b>2014:1545</b>	<b>2015:1560</b>
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- Number of educational materials created or updated

<b>2011:100</b>	<b>2012:101</b>	<b>2013:102</b>	<b>2014:103</b>	<b>2015:104</b>
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- Number of educational materials distributed

<b>2011:25000</b>	<b>2012:25250</b>	<b>2013:25500</b>	<b>2014:26000</b>	<b>2015:26500</b>
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- Number of professional presentations

<b>2011:10</b>	<b>2012:10</b>	<b>2013:11</b>	<b>2014:11</b>	<b>2015:12</b>
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- Number of outside organizations collaborating within this program area

<b>2011:100</b>	<b>2012:101</b>	<b>2013:102</b>	<b>2014:103</b>	<b>2015:104</b>
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**V(I). State Defined Outcome**

O. No.	Outcome Name
1	Number of participants in workforce development programs who increase their knowledge.
2	Number of participants who improve or increase skills
3	Number of participants who change their attitudes or opinions
4	Number of participants who are motivated to change their behavior
5	Number of participants who change a behavior or use a new skill
6	Number of participants who train others
7	Amount of money raised by participants to support the program
8	Number of people certified or licensed to practice in the field
9	Number of groups or organizations that change their procedures and/or policies
10	Number of new groups or organizations that are established or enhanced
11	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
12	Number of economic improvements

**Outcome # 1**

**1. Outcome Target**

Number of participants in workforce development programs who increase their knowledge.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:15000                      2012:15150                      2013:15300                      2014:15450                      2015:15600**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Number of participants who improve or increase skills

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:7500                      2012:7575                      2013:7650                      2014:7725                      2015:7800**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Number of participants who change their attitudes or opinions

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:3000                      2012:3030                      2013:3060                      2014:3120                      2015:3160**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 4**

**1. Outcome Target**

Number of participants who are motivated to change their behavior

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:3000                      2012:3030                      2013:3060                      2014:3090                      2015:3120**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 5**

**1. Outcome Target**

Number of participants who change a behavior or use a new skill

**2. Outcome Type : Change in Action Outcome Measure**

**2011:1500**

**2012:1515**

**2013:1530**

**2014:1545**

**2015:1560**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 6**

**1. Outcome Target**

Number of participants who train others

**2. Outcome Type : Change in Action Outcome Measure**

**2011:25**

**2012:26**

**2013:27**

**2014:28**

**2015:29**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 7**

**1. Outcome Target**

Amount of money raised by participants to support the program

**2. Outcome Type : Change in Action Outcome Measure**

**2011:10000                      2012:10100                      2013:10200                      2014:10300                      2015:10400**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 8**

**1. Outcome Target**

Number of people certified or licensed to practice in the field

**2. Outcome Type : Change in Action Outcome Measure**

**2011:100                      2012:101                      2013:102                      2014:103                      2015:104**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 9**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:10                      2012:10                      2013:11                      2014:11                      2015:12**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 10**

**1. Outcome Target**

Number of new groups or organizations that are established or enhanced

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:4                      2012:4                      2013:5                      2014:5                      2015:5**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 11**

**1. Outcome Target**

Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 12**

**1. Outcome Target**

Number of economic improvements

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:4                      2012:4                      2013:4                      2014:5                      2015:5**

**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 602 - Business Management, Finance, and Taxation
- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

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



- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

#### **Description**

Competition for training funds and changes in regulations make it harder to complete classes. Changes in government regulations make it harder to reach national consensus standard. Competing with RESA , which gets money to conduct free classes. Grants becoming harder to secure.

### **V(K). Planned Program (Evaluation Studies and Data Collection)**

#### **1. Evaluation Studies Planned**

- After Only (post program)
- Before-After (before and after program)
- During (during program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants

#### **Description**

Pre- and post-tests and successful completion of trainings. Observations of participants in works settings and in community settings.

#### **2. Data Collection Methods**

- Whole population
- On-Site
- Structured
- Observation
- Portfolio Reviews
- Tests

#### **Description**

Pre- and post-tests; observe scenarios; physical review of sample practice work and portfolio. Discussion as training is taking place. Practical hands-on training. Observations. All of the above-listed qualitative and quantitative evaluation methods are part of WVUSHE's general evaluation approach. These methods have been used for evaluation of various projects and efforts in the past, are currently being used, and/or are planned for future project evaluation. Results are tabulated and compiled in training, service, and/or research summaries and are reported in individual instructor and general WVUSHE annual reports. Project summaries are often submitted in publishable format for professional journals and presented by WVUSHE personnel at local, regional, and national workshops and conferences.

## V(A). Planned Program (Summary)

### Program # 4

#### 1. Name of the Planned Program

Global Food Security and Hunger

#### 2. Brief summary about Planned Program

The Global Food Security and Hunger planned program at WVU Extension includes the following initiatives:

Feeder Cattle Marketing: Extension provides technical assistance, delivers educational programming and organizational support to West Virginia Feeder Cattle Marketing Pools to the beef industry in WV, mostly small farms.

Homeowner Horticulture: Master Gardener trainees are given training in botany, propagation, soil science, plant pathology, entomology, communication skills and pest management. Specific gardening topics allow Master Gardeners to diversify their horticultural knowledge.

Commercial Horticulture: There continues to be a limited supply of locally-grown food in West Virginia and a lack of quality and diversity of produce. Control over one or more environmental variables will enable a specialty crop producer to produce a higher yields across West Virginia.

Livestock Improvement: This program includes programs that focus on mating systems and genetic improvement such as the Southern Bull Test and the Young Sire Evaluation Program.

Aquaculture: The first step is to engage WV aquaculture producers is to identify specific issues of concern. We have reviewed WV regulations, statutes, and the agencies responsible for implementation in WV, and have reviewed regulatory/statutory schemes for aquaculture in other states. This has provided guidance regarding how WV should proceed in this industry.

Grassland Management: Activities are designed to 1) reduce feed costs by forage testing and refined supplemental feeding; 2) reduce purchased fertilizer costs by recycling nutrients in hay, purchased supplements and pasture; 3) improve hay quality through harvest and storage management; 4) improve information transfer with pasture walks and 5) improved calf gain and health through pasture weaning.

Sustainable Agriculture: Farm families need training in how to sustain their farm operations to include more sustainable and profitable production systems. Managing risk is addressed in two ways: 1) the immediate aspect where farmers decide what price to pay for cattle, or which fertilizer they need, and 2) future planning about how to minimize tax exposure or to buy crop insurance.

Farm Management: Farm families need training in how to keep good records that allow farmers to "know" their businesses, allowing managers to make comparisons and utilize the various tools and programs available to them. Value-added Marketing: Farm families need training in how to make long term, major management changes that alter the path that they follow into the future, including adding value to their crops.

Youth Agriculture: 4-H agricultural education programs offer training that develops life skills in both youth and adults. Development of life skills enhances the ability of youth to become functioning members of society, and helps adults accomplish personal/career goals.

Environmental Stewardship at WVU Extension is composed of seven initiatives including Watershed & Water Quality, Pesticide management, Nutrient Management, Pesticide Safety Education, Tree Fruit IPM, and the Network for Pesticides and Alternative Strategies.

**3. Program existence** : Mature (More than five years)

**4. Program duration** : Long-Term (More than five years)

**5. Expending formula funds or state-matching funds** : Yes

**6. Expending other than formula funds or state-matching funds** : Yes

**V(B). Program Knowledge Area(s)**

## 1. Program Knowledge Areas and Percentage

<b>KA Code</b>	<b>Knowledge Area</b>	<b>%1862 Extension</b>	<b>%1890 Extension</b>	<b>%1862 Research</b>	<b>%1890 Research</b>
102	Soil, Plant, Water, Nutrient Relationships	10%			
205	Plant Management Systems	5%			
211	Insects, Mites, and Other Arthropods Affecting Plants	10%			
212	Pathogens and Nematodes Affecting Plants	4%			
213	Weeds Affecting Plants	10%			
215	Biological Control of Pests Affecting Plants	5%			
216	Integrated Pest Management Systems	10%			
303	Genetic Improvement of Animals	5%			
307	Animal Management Systems	10%			
308	Improved Animal Products (Before Harvest)	10%			
311	Animal Diseases	2%			
503	Quality Maintenance in Storing and Marketing Food Products	2%			
603	Market Economics	2%			
604	Marketing and Distribution Practices	10%			
607	Consumer Economics	5%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)****1. Situation and priorities**

West Virginia is characterized by small farms that have difficulty marketing their products because they lack the critical mass required for many marketing strategies. Our programs emphasize pooling of producer resources and assisting producers in complying with market regulations. The beef quality assurance program teaches local livestock producers how to incorporate best management practices concerning animal health, genetic improvement, animal welfare, biosecurity, and nutritional management. West Virginia is a state of primarily small producers and there are few places where 100 bulls or 50 rams are developed together and comparisons can be made. Since some bulls sold in the sire evaluation test program are purchased by breeders who sell their progeny directly off the farm, the test program impacts many more producers than the number who purchase bulls at the sale. The clinics allow producers the production advantages of larger enterprises. We do not have enough growers in West Virginia to produce locally grown products and we lack educational opportunities for entry-level producers. More than 90% of the forest land in West Virginia is privately owned. During the past decade there has been a dramatic increase in timber harvesting, especially on private lands. Timber harvesting has long-lasting impact on the productivity and aesthetics of private forests. Landowners may not understand the environmental impacts. Other problems include intense competition, low operating margins, poor education about alternative methods, and resistance to change. The aquaculture initiatives provide an opportunity to impact economic development, health, and the quality of life for WV residents.

**2. Scope of the Program**

- In-State Extension
- In-State Research
- Multistate Research
- Multistate Extension
- Multistate Integrated Research and Extension

**V(D). Planned Program (Assumptions and Goals)**

**1. Assumptions made for the Program**

1. Feeder cattle marketing pools, board sales, and web-based and Internet sales will expand the market for WV producers.
2. As consolidation continues in the beef industry and more export regulations are introduced, producers will need assistance with staying in compliance or face a loss of market opportunity.
3. Additional staff needs to be hired to help educate local growers.
4. Proper management of water resources in a sustainable fashion can result in products that can contribute supplementary income to landowners and to their quality of life. In the process of growing and selling fish, impacts may accrue to the community, the tourism industry, and through production of healthful foods.

**2. Ultimate goal(s) of this Program**

- 1) Beef producers in West Virginia will utilize new technologies and methods of production and will increase their sales of beef.
- 2) West Virginia farmers will increased crop production and farm profitability.
- 3) Commercial businesses and private landholders will improve their property and investments.
- 4) Shepherds will manage their operations profitably.
- 5) WV small producers will conduct breeding soundness exams and ultrasounds.
- 6) WV residents will decrease their dependence on imported seafood.
- 7) WV applicators will reduce the misuse of pesticides, improve their use of pesticides with current technology, and select environmentally safe pesticides
- 8) WV youth will develop life skills related to food and agriculture production

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	49.0	0.0	0.0	0.0
2012	50.0	0.0	0.0	0.0
2013	50.0	0.0	0.0	0.0
2014	50.0	0.0	0.0	0.0
2015	50.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

The Global Food Security and Hunger planned program includes initiatives in aquaculture, beef quality assurance, commercial horticulture, feeder cattle marketing, homeowner horticulture, horticulture marketing, livestock improvement, grassland management, small ruminants, youth agriculture, farm management, and environmental stewardship including watershed and water quality, pesticide management, nutrient management, plant diagnostics and tree fruit IPM. Activities will include the development of curriculum, handbooks, and other teaching materials, research projects, improving access of information and referral to producers, and quality assurance audits to evaluate best management practices adopted.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> <li>● Other 1 (fact sheets, posters)</li> <li>● Other 2 (audits)</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● Web sites</li> <li>● Other 1 (trade show displays, posters)</li> </ul>

**3. Description of targeted audience**

The target audience is beef and dairy producers, large and small growers of horticultural products, regional livestock producers, market managers, private forestland owners, loggers and timber processors, homeowners, shepherds, pesticide applicators, certified nutrient managers, youth livestock exhibitors, volunteers, Extension agents, and Extension specialists.

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	40000	375000	30000	40000
2012	40400	378000	30300	40400
2013	40800	381000	30600	40800
2014	41200	384000	31200	41200
2015	41600	387000	31500	41600

**2. (Standard Research Target) Number of Patent Applications Submitted**

2011:0                      2012:0                      2013:0                      2014:0                      2015:0

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
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Year	Research Target	Extension Target	Total
2011	1	10	11
2012	1	11	12
2013	1	12	13
2014	1	13	14
2015	1	14	15

## V(H). State Defined Outputs

### 1. Output Target

- Number of educational activities

**2011:2500**      **2012:2525**      **2013:2550**      **2014:2575**      **2015:2600**

- Number of educational materials created or updated

**2011:250**      **2012:252**      **2013:253**      **2014:254**      **2015:256**

- Number of educational materials distributed

**2011:300300**      **2012:300600**      **2013:300900**      **2014:301200**      **2015:301500**

- Number of outside organizations collaborating within this program area

**2011:150**      **2012:152**      **2013:154**      **2014:156**      **2015:158**

- Number of professional presentations

**2011:12**      **2012:13**      **2013:14**      **2014:15**      **2015:16**

**V(I). State Defined Outcome**

<b>O. No.</b>	<b>Outcome Name</b>
1	Number of participants who increase their knowledge
2	Number of participants who change their attitudes or opinions
3	Number of participants who improve or increase skills
4	Number of participants who are motivated to change their behavior
5	Number of participants who change a behavior or use a new skill
6	Amount of money raised by participants to support the program
7	Number of participants who train others
8	Number of people certified or licensed to practice in the field
9	Number of groups or organizations that change their procedures and/or policies
10	Number of new groups or organizations that are established or enhanced
11	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
12	Number of economic improvements
13	Number of environmental improvements

**Outcome # 1****1. Outcome Target**

Number of participants who increase their knowledge

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:50000                      2012:50500                      2013:51000                      2014:51500                      2015:52000**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2****1. Outcome Target**

Number of participants who change their attitudes or opinions

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:4400                      2012:4800                      2013:5200                      2014:5600                      2015:6000**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals



- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

#### 4. Associated Institute Type(s)

- 1862 Extension

#### Outcome # 3

##### 1. Outcome Target

Number of participants who improve or increase skills

##### 2. Outcome Type : Change in Knowledge Outcome Measure

2011:7000                      2012:7070                      2013:7140                      2014:7210                      2015:7280

##### 3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

#### 4. Associated Institute Type(s)

- 1862 Extension

#### Outcome # 4

##### 1. Outcome Target

Number of participants who are motivated to change their behavior

**2. Outcome Type : Change in Action Outcome Measure**

**2011:18200                      2012:18400                      2013:18600                      2014:18800                      2015:19000**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 5**

**1. Outcome Target**

Number of participants who change a behavior or use a new skill

**2. Outcome Type : Change in Action Outcome Measure**

**2011:2000                      2012:2020                      2013:2040                      2014:2060                      2015:2080**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products

- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 6**

**1. Outcome Target**

Amount of money raised by participants to support the program

**2. Outcome Type : Change in Action Outcome Measure**

**2011:30000                      2012:30300                      2013:30600                      2014:30900                      2015:31200**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 7**

**1. Outcome Target**

Number of participants who train others

**2. Outcome Type : Change in Action Outcome Measure**

**2011:2000                      2012:2020                      2013:2040                      2014:2060                      2015:2080**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships

- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

#### 4. Associated Institute Type(s)

- 1862 Extension

#### Outcome # 8

##### 1. Outcome Target

Number of people certified or licensed to practice in the field

##### 2. Outcome Type : Change in Action Outcome Measure

2011:100

2012:101

2013:102

2014:103

2015:104

##### 3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 9**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies

**2. Outcome Type : Change in Condition Outcome Measure**

<b>2011:10</b>	<b>2012:12</b>	<b>2013:13</b>	<b>2014:14</b>	<b>2015:15</b>
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**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 10**

**1. Outcome Target**

Number of new groups or organizations that are established or enhanced

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2011:2</b>	<b>2012:2</b>	<b>2013:3</b>	<b>2014:3</b>	<b>2015:3</b>
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**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices

#### 4. Associated Institute Type(s)

- 1862 Extension

#### Outcome # 11

##### 1. Outcome Target

Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated

##### 2. Outcome Type : Change in Knowledge Outcome Measure

2011:1                      2012:1                      2013:1                      2014:1                      2015:1

##### 3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

#### 4. Associated Institute Type(s)

- 1862 Extension

#### Outcome # 12

##### 1. Outcome Target

Number of economic improvements

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:4                      2012:4                      2013:5                      2014:5                      2015:5**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 13**

**1. Outcome Target**

Number of environmental improvements

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:2                      2012:2                      2013:2                      2014:3                      2015:3**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 308 - Improved Animal Products (Before Harvest)
- 311 - Animal Diseases
- 503 - Quality Maintenance in Storing and Marketing Food Products

- 603 - Market Economics
- 604 - Marketing and Distribution Practices
- 607 - Consumer Economics

#### **4. Associated Institute Type(s)**

- 1862 Extension

### **V(J). Planned Program (External Factors)**

#### **1. External Factors which may affect Outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Other (funding)

#### **Description**

Natural disasters, economy, and external funding could affect program delivery, particularly certification programs. Government regulations and policy can change the marketplace with a change in animal health or disease alerts or quarantines. A change in energy policy or continued increase in cost will affect the market drastically due to transportation of cattle feed resources and fertilizers. Natural disasters such as droughts, floods, and hurricanes tend to have a long-term effect on regional markets. State and Federal appropriations may change. The WV economy may have a turn down. The small ruminant sector is hanging on because there is a potential for great profit, at least with sheep. The predator issue has pushed several people out of the business, but the high market price is attracting them. Animal disease outbreaks tend to put a lot of uncertainty in the livestock marketplace.

### **V(K). Planned Program (Evaluation Studies and Data Collection)**

#### **1. Evaluation Studies Planned**

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Other (audits)

#### **Description**

Producer audits for 10% of the certified producers each year. Producers who are required to be certified as a prerequisite will be audited annually. Periodic surveys will be conducted to determine how to reach producers who have elected not to attend the certification programs. Participation in marketing programs and annual economic analysis of data will be performed. Observation techniques will be used to assess the success of programs.

Variety trials examining asparagus, sweet corn, leeks, pumpkins, snap beans, leafy greens, carrots, strawberries, blackberries and blueberries were initiated in 2009 and will continue in succeeding years.



## 2. Data Collection Methods

- Sampling
- Whole population
- Mail
- Telephone
- On-Site
- Structured
- Unstructured
- Case Study
- Observation
- Portfolio Reviews
- Tests

### Description

Same as above

## V(A). Planned Program (Summary)

### Program # 5

#### 1. Name of the Planned Program

Strengthening Families

#### 2. Brief summary about Planned Program

The Strengthening Families program area includes the following WVU Extension initiatives:

Strong Families Eat Together is an educational campaign to improve quality family mealtime experiences and to increase the time families spend eating together. The project includes: media articles, an instructional curriculum, take-home educational tools, and a research component. The take home educational tools are the Family Meal Tracker dry-erase refrigerator magnet to record the frequency of meals eaten together and the occurrence of positive family mealtime behaviors, and the Family Conversation Starters &ndash a tabletop spiral-bound book with 95 different topics to spark family conversation.

Family Finance Programs: WVU ES delivers programs that enable families, adults, and communities to build on their strengths, manage their resources, and expand their future capabilities in the area of financial management.

Child Care Providers Training Project - In West Virginia, in order for a child care center to maintain its license, child care providers must successfully complete 16 hours of continuing education per year. These training sessions must be accredited through the West Virginia State Training and Registry System (STARS). In 2009, only 2 agents and 2 specialists were certified by STARS. The goals of the child care providers training project includes 1) to increase number of WVU ED agents accredited in childcare training through STARS, 2) to implement s training program to obtain the STARS credential, 3) to provide agents with the required orientation to STARS, and 4) to increase the number of STARS approved curricula in five core content areas.

The Relatives as Parents Program (RAPP) at WVU-ES provides educational resources for people raising a grandchild or other relative's child. One of our most important resources for distributing educational material on kincare through the Relatives as Parents Program (RAPP) has been the RAPP listserv that has a membership of more than 80 individuals. The RAPP collaborative group (Mission WV, DHHR, Legal Aid of WV) is very active in sending out information through the listserv.

Aging/Gerontology Outreach Efforts WVU-ES does not have a formal aging program, but one specialist is involved in small outreach efforts related to the needs of the WV older population. Additionally, this specialist has worked with the eXtension Family Caregiving Community of Practice as their evaluator and contributes educational material to the website.

The West Virginia Healthy Families-Healthy Children Initiative - In West Virginia, WVU Extension Service has implemented and managed the Healthy Marriage Initiative funded by WV Department of Health and Human Services since 2005. The initiative seeks to improve the well-being of children and families by 1) supporting marriage by strengthening services to families already receiving help from other DHHS programs, 2) supporting the development of community-wide initiatives that address healthy relationships and marriages. The HFHC program trains and supporting grassroots 16 coalitions to provide locally relevant educational programs in three focus areas: 1) healthy relationships, positive parenting, and financial education.

**3. Program existence :** Mature (More then five years)

**4. Program duration :** Long-Term (More than five years)

**5. Expending formula funds or state-matching funds :** Yes

**6. Expending other than formula funds or state-matching funds :** Yes

**V(B). Program Knowledge Area(s)**

## 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
801	Individual and Family Resource Management	20%			
802	Human Development and Family Well-Being	80%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)****1. Situation and priorities**

Parents of young children in WV need help with the many decisions they must make in parenting their children. These days, parents have many demands and often do not have time for extensive reading or attending parenting classes.

Many of those who are caring for our children in childcare centers in West Virginia are not trained adequately. Many childcare workers have high school or GED certificates but no higher education. Extension educators can provide college-level training on a variety of subjects related to child development and care. The Apprentice for Child Development Specialist program (ACDS) and the STARS program in West Virginia are committed to certifying childcare providers through an educational program linked to on-the-job experience. There are not enough ACDS trainers in West Virginia counties.

Nationally, there are about 5 million children being raised by a grandparent or other relative because their biological parent is not able or willing to assume the parenting role. In West Virginia, there are approximately 25,000 children being raised by a grandparent and 20,000 custodial caregivers. The number one reason grandparents are raising their grandchildren is drug or alcohol abuse. Other reasons are incarceration, abandonment, death and military employment. Particularly salient are their needs for legal and financial assistance and accessing the formal child welfare system.

Families in WV need help managing their money. Of particular concern is the need for reducing credit card debt and increasing the amount of money families save each year. WVU Extension has been working on strategies to increase financial literacy among families in West Virginia.

The divorce rate is now at 50% nationally. It appears that couples do not work as hard to maintain their marriages as they did in the past. Couples in West Virginia need to gain skills to overcome problems in their relationships and maintain family connections.

West Virginia ranks second in the percentage of residents over the age of 65. WVU Extension has begun to meet the needs of older adults through the publication and distribution of educational material for older adults and a working association with the Extension Family Caregiving Community of Practice on eXtension.

**2. Scope of the Program**

- In-State Extension

**V(D). Planned Program (Assumptions and Goals)****1. Assumptions made for the Program**

Strengthening families initiatives are best delivered through local collaboratives.

Parenting information is best delivered through partnerships with local organizations including schools and faith-based organizations because these institutions have access to parents and are trusted entities. For this reason, the Healthy Families/Healthy Children program has built local coalitions to deliver parenting and adult relationship programs.

Many of those who are caring for our children in childcare centers in West Virginia are not trained adequately. Many childcare workers have high school or GED certificates but no higher education. Extension educators can provide college-level training on a variety of subjects related to child development and care.

Many older adults in West Virginia are not computer knowledgeable and/or do not have access to computers. A high percentage of older adults in West Virginia have low literacy skills. Older adults in West Virginia have

strong ties to their communities and rely on community leaders for information and support. Collaboration at the local level is an important way to meet the needs of older adults, and Extension is particularly good at working within collaborations.

The RAPP program is also a collaborative program with Mission WV and the WV Department of Health and Human Resources. Extension faculty work with these statewide organizations to provide education and resources to county individuals.

Coalitions or organizations organized around a theme work well in West Virginia. Couples who have received the PREP training have a lower divorce rate than others going through other marriage programs. People who are given training that includes relationship skills tend to continue to use them after 5 years.

**2. Ultimate goal(s) of this Program**

- 1) Childcare workers will provide professional, safe care for children.
- 2) Parents will become better parents by gaining researched-based successful parenting skills.
- 3) West Virginia families will be led by adults in strong, healthy, long-lasting relationships.
- 4) Kin caregivers will create stable, loving environments in which to raise the children.
- 5) Older adult citizens of West Virginia will gain in life satisfaction and find the resources they need.
- 6) WV families will save and manage their finances and improve their way of life.

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	16.0	0.0	0.0	0.0
2012	16.0	0.0	0.0	0.0
2013	16.0	0.0	0.0	0.0
2014	16.0	0.0	0.0	0.0
2015	0.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

The Strengthening Family planned program consists of the following initiatives: Childcare Education, Family Finance, Healthy Families Healthy Children, Strong Families Eat Together, Relatives as Parents Program. Activities include: disseminating the Family Times Newsletter; teaching within the WV STARS program and other childcare training programs, writing and disseminating fact sheets and other articles about childcare, family finance, adult relationships, and raising grandchildren, training WV citizens in family matters, participating in the WV Earned Income Tax promotion program, training county-level coalition members to implement programs, and building healthy family healthy children coalitions in West Virginia.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

<b>Direct Methods</b>	<b>Indirect Methods</b>
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- |                                                                                                                                                                                                                                                      |                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Education Class</li> <li>• Workshop</li> <li>• Group Discussion</li> <li>• Demonstrations</li> <li>• Other 1 (Collaborations with schools)</li> <li>• Other 2 (collarorations w/day care center)</li> </ul> | <ul style="list-style-type: none"> <li>• Billboards</li> <li>• Newsletters</li> <li>• Web sites</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

**3. Description of targeted audience**

West Virginia parents, childcare providers in WV, older adults in WV, kin caregivers in WV, school teachers, WV citizens in significant relationships, Extension agents, social service personnel

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	9000	40000	2000	1500
2012	9090	40400	2020	1515
2013	9180	40800	2040	1530
2014	9360	41600	2080	1545
2015	9440	41240	2120	1560

**2. (Standard Research Target) Number of Patent Applications Submitted**

**2011:0                      2012:0                      2013:0                      2014:0                      2015:0**

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2011	0	1	0
2012	0	1	0
2013	0	1	0
2014	0	2	0
2015	0	2	0

## V(H). State Defined Outputs

### 1. Output Target

- Number of educational activities

<b>2011:130</b>	<b>2012:131</b>	<b>2013:132</b>	<b>2014:133</b>	<b>2015:134</b>
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- Number of educational materials created or updated.

<b>2011:81</b>	<b>2012:82</b>	<b>2013:83</b>	<b>2014:84</b>	<b>2015:85</b>
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- Number of educational materials distributed.

<b>2011:20000</b>	<b>2012:20200</b>	<b>2013:20400</b>	<b>2014:20800</b>	<b>2015:21200</b>
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- Number of outside organizations collaborating within this program area

<b>2011:31</b>	<b>2012:32</b>	<b>2013:33</b>	<b>2014:34</b>	<b>2015:35</b>
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- Number of professional presentations

<b>2011:5</b>	<b>2012:5</b>	<b>2013:6</b>	<b>2014:6</b>	<b>2015:7</b>
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**V(I). State Defined Outcome**

O. No.	Outcome Name
1	Number of participants who increased their knowledge.
2	Number of participants who improve or increase their skills.
3	Number of participants who are motivated to change their behavior
4	Number of participants who change a behavior or use a new skill
5	Number of participants who train others
6	Amount of money raised by participants to support the program
7	Number of people certified or license to practice in the field
8	Number of groups or organizations that change their procedures and/or policies
9	Number of new groups or organizations that are established or enhanced
10	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
11	Number of economic improvements
12	Number of environmental improvements

**Outcome # 1**

**1. Outcome Target**

Number of participants who increased their knowledge.

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:2200                      2012:2220                      2013:2240                      2014:2260                      2015:2280**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Number of participants who improve or increase their skills.

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:1200                      2012:1225                      2013:1250                      2014:1275                      2015:1300**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Number of participants who are motivated to change their behavior

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:2020                      2012:2040                      2013:2060                      2014:2080                      2015:2100**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension



**Outcome # 4**

**1. Outcome Target**

Number of participants who change a behavior or use a new skill

**2. Outcome Type : Change in Action Outcome Measure**

<b>2011:206</b>	<b>2012:208</b>	<b>2013:210</b>	<b>2014:212</b>	<b>2015:214</b>
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**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 5**

**1. Outcome Target**

Number of participants who train others

**2. Outcome Type : Change in Action Outcome Measure**

<b>2011:100</b>	<b>2012:101</b>	<b>2013:102</b>	<b>2014:103</b>	<b>2015:104</b>
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**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 6**

**1. Outcome Target**

Amount of money raised by participants to support the program

**2. Outcome Type : Change in Action Outcome Measure**

<b>2011:5000</b>	<b>2012:5050</b>	<b>2013:5100</b>	<b>2014:5150</b>	<b>2015:5200</b>
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**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 7**

**1. Outcome Target**

Number of people certified or license to practice in the field

**2. Outcome Type : Change in Action Outcome Measure**

**2011:25                      2012:26                      2013:27                      2014:28                      2015:29**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 8**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:2                      2012:3                      2013:4                      2014:5                      2015:6**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 9**

**1. Outcome Target**

Number of new groups or organizations that are established or enhanced

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:2                      2015:2**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 10**

**1. Outcome Target**

Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 11**

**1. Outcome Target**

Number of economic improvements

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:2                      2014:2                      2015:3**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 12**

**1. Outcome Target**

Number of environmental improvements

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:0                      2012:0                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension

## **V(J). Planned Program (External Factors)**

### **1. External Factors which may affect Outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

#### **Description**

Ability to make contacts within the school systems in each county. Ability to get outside organizations to participate in some of our initiatives, funding, Extension priorities.

## **V(K). Planned Program (Evaluation Studies and Data Collection)**

### **1. Evaluation Studies Planned**

- After Only (post program)
- Before-After (before and after program)
- During (during program)
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention

#### **Description**

Evaluation of family programs will be evaluated to show impact. Programs will also undergo process evaluations.

### **2. Data Collection Methods**

- Sampling
- Whole population
- Mail
- Telephone
- On-Site
- Structured
- Unstructured
- Observation
- Portfolio Reviews
- Other (focus groups)

#### **Description**

**V(A). Planned Program (Summary)**

**Program # 6**

**1. Name of the Planned Program**

Climate Change

**2. Brief summary about Planned Program**

WVU Extension offers programs to help producers plan for and make decision to adapt to changing environments and take advantage of economic opportunities offered by climate change mitigation technologies. We offer a wide variety of teaching activities and programming in the area of forest operations and logging. These programs have reached individuals in the general public such as lay persons interested in forestry, active woodland owners, industrial forestry professionals, and matriculating university students. Programs in this area include

- Carbon sequestration,
- Mine land reclamation
- Forestry and forest stewardship

**3. Program existence :** Mature (More then five years)

**4. Program duration :** Long-Term (More than five years)

**5. Expending formula funds or state-matching funds :** Yes

**6. Expending other than formula funds or state-matching funds :** Yes

**V(B). Program Knowledge Area(s)**

**1. Program Knowledge Areas and Percentage**

<b>KA Code</b>	<b>Knowledge Area</b>	<b>%1862 Extension</b>	<b>%1890 Extension</b>	<b>%1862 Research</b>	<b>%1890 Research</b>
122	Management and Control of Forest and Range Fires	25%			
123	Management and Sustainability of Forest Resources	25%			
124	Urban Forestry	25%			
125	Agroforestry	25%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)**

**1. Situation and priorities**

Twelve million acres, or 79%, of West Virginia is forested. Over 80% of these forests are owned by 260,000 private individuals. Estimates are that only about 15% of these private forestland owners have been in contact with a forest resources professional. Given the crucial role that forests play in water quality issues and in the economic support of about \$4 billion they bring to the state, providing forestry education to these private landowners has the potential to facilitate sustainable forestry practices and improve the economic well-being of forestland owners. The Forestry Team is a group of Extension professionals working as a unit to develop programming in West Virginia to be used by individuals and organizations to improve their knowledge of forests and natural resources through education, demonstration, and research. Target audiences of Forestry Team projects include private forestland owners, forestry professionals, loggers, general public, and youth.

**2. Scope of the Program**

- In-State Extension

**V(D). Planned Program (Assumptions and Goals)**

**1. Assumptions made for the Program**

1. Forests play a crucial role in water quality issues.
2. WV forests bring about 4 billion in value to the state.
3. Forestry education for private landowners has the potential to facilitate sustainable forestry practices.
4. Forestry education has the potential to improve the economic well-being of forestland owners.
5. Landowners can add value to their small wood resources.

**2. Ultimate goal(s) of this Program**

Goal: To provide forest stewardship education and resources to active woodland owners, industrial forestry professionals, and matriculating university students that will result in better forest roads, better water quality, increased value of small wood resources, and increased revenue to the state.

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	2.0	0.0	0.0	0.0
2012	2.0	0.0	0.0	0.0
2013	2.0	0.0	0.0	0.0
2014	3.0	0.0	0.0	0.0
2015	3.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

The Forestry Team, a group of Extension professionals, will work as a unit to develop programming in West Virginia to be used by individuals and organizations to improve their knowledge of forests and natural resources through education, demonstration, and research.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> <li>• Education Class</li> <li>• Workshop</li> <li>• Group Discussion</li> <li>• One-on-One Intervention</li> <li>• Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>• Newsletters</li> <li>• Web sites</li> </ul>

**3. Description of targeted audience**

Target audiences of Forestry Team projects include private forestland owners, forestry professionals, loggers, general public, and youth.

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	1500	4000	400	400
2012	1515	4040	404	404
2013	1530	4080	408	408
2014	1545	4120	412	412
2015	1560	4160	416	416

**2. (Standard Research Target) Number of Patent Applications Submitted**

**2011:0                      2012:0                      2013:0                      2014:0                      2015:0**

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2011	1	0	0
2012	1	0	0
2013	1	0	0
2014	1	0	0
2015	1	0	0

## V(H). State Defined Outputs

### 1. Output Target

- Number of educational activities

<b>2011:12</b>	<b>2012:13</b>	<b>2013:14</b>	<b>2014:15</b>	<b>2015:16</b>
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- Number of educational materials created or updated

<b>2011:1</b>	<b>2012:1</b>	<b>2013:2</b>	<b>2014:2</b>	<b>2015:3</b>
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- Number of professional presentations

<b>2011:2</b>	<b>2012:2</b>	<b>2013:3</b>	<b>2014:3</b>	<b>2015:3</b>
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- Number of outside organizations collaborating with this program area

<b>2011:21</b>	<b>2012:22</b>	<b>2013:23</b>	<b>2014:24</b>	<b>2015:25</b>
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- Number of educational materials distributed

<b>2011:1500</b>	<b>2012:1515</b>	<b>2013:1530</b>	<b>2014:1545</b>	<b>2015:1560</b>
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**V(I). State Defined Outcome**

O. No.	Outcome Name
1	Number of participants who increase their knowledge
2	Number of participants who improve or increase skills
3	Number of participants who change their attitudes or opinions
4	Number of participants who are motivated to change their behavior
5	Number of participants who change a behavior or use a new skill
6	Number of participants who train others
7	Amount of money raised by participants to support the program
8	Number of people certified or licensed to practice
9	Number of groups or organizations that change their procedures and/or policies
10	Number of new groups or organizations that are established or enhanced
11	Number of physical or social effects, such as disease, pollution, or crime, etc., reduced or eliminated
12	Number of economic improvements
13	Number of environmental improvements

**Outcome # 1**

**1. Outcome Target**

Number of participants who increase their knowledge

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:**1500                      **2012:**1515                      **2013:**1530                      **2014:**1545                      **2015:**1560

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Number of participants who improve or increase skills

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:**750                      **2012:**757                      **2013:**764                      **2014:**771                      **2015:**778

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Number of participants who change their attitudes or opinions

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:**750                      **2012:**757                      **2013:**764                      **2014:**771                      **2015:**778

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 4**

**1. Outcome Target**

Number of participants who are motivated to change their behavior

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2011:380</b>	<b>2012:384</b>	<b>2013:388</b>	<b>2014:396</b>	<b>2015:404</b>
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**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 5**

**1. Outcome Target**

Number of participants who change a behavior or use a new skill

**2. Outcome Type : Change in Action Outcome Measure**

<b>2011:380</b>	<b>2012:384</b>	<b>2013:388</b>	<b>2014:396</b>	<b>2015:404</b>
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**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 6**

**1. Outcome Target**

Number of participants who train others

**2. Outcome Type : Change in Action Outcome Measure**

**2011:150                      2012:152                      2013:154                      2014:156                      2015:158**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 7**

**1. Outcome Target**

Amount of money raised by participants to support the program

**2. Outcome Type : Change in Action Outcome Measure**

**2011:1000                      2012:1010                      2013:1020                      2014:1030                      2015:1040**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 8**

**1. Outcome Target**

Number of people certified or licensed to practice

**2. Outcome Type : Change in Action Outcome Measure**

**2011:10                      2012:11                      2013:12                      2014:13                      2015:14**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 9**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:2                      2014:2                      2015:2**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 10**

**1. Outcome Target**

Number of new groups or organizations that are established or enhanced

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:2                      2014:2                      2015:2**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 11**

**1. Outcome Target**

Number of physical or social effects, such as disease, pollution, or crime, etc., reduced or eliminated

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 12**

**1. Outcome Target**

Number of economic improvements

**2. Outcome Type : Change in Condition Outcome Measure**

**2011:1                      2012:1                      2013:2                      2014:2                      2015:2**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 13**

**1. Outcome Target**

Number of environmental improvements

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:1                      2012:1                      2013:2                      2014:2                      2015:2**

**3. Associated Knowledge Area(s)**

- 122 - Management and Control of Forest and Range Fires
- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

#### **4. Associated Institute Type(s)**

- 1862 Extension

#### **V(J). Planned Program (External Factors)**

##### **1. External Factors which may affect Outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

##### **Description**

{NO DATA ENTERED}

#### **V(K). Planned Program (Evaluation Studies and Data Collection)**

##### **1. Evaluation Studies Planned**

- After Only (post program)
- Before-After (before and after program)
- During (during program)

##### **Description**

{NO DATA ENTERED}

##### **2. Data Collection Methods**

- Whole population
- Mail
- On-Site
- Structured
- Observation
- Tests

##### **Description**

{NO DATA ENTERED}

## **V(A). Planned Program (Summary)**

### **Program # 7**

#### **1. Name of the Planned Program**

Food Safety

#### **2. Brief summary about Planned Program**

WVU Extension is working toward reducing the incidence of food-borne illness and providing a safer food supply by eliminating causes of microbial resistance to contaminants, educating consumer and food safety professionals, and developing food processing technologies to improve safety.

**Beef Quality Assurance (BQA) Program:** BQA training provides an opportunity for direct contact with the producers and incorporates a method of "hands on" teaching. The WV BQA certification program follows the guidelines established by the Mid-Atlantic BQA program where producers are required to participate in (1) a Level I class room training program and (2) a Level II

**The Acidified Foods School:** The Acidified Foods School is a subset of the Better Process Control School. The school is required for processors of shelf-stable acidified foods. Products that are considered acidified foods include pickles, pickled beets, salsa, pickled eggs, and pickled ramps. It also includes a lot of BBQ sauces, pumpkin butters, peppers in tomato sauce ETC. Before any product can be actually produced and sold, a process authority has to approve the process and tell them what records to keep. Extension provides that service for free - if they go out of state it cost about \$100 per food. The products have to first go to WV Ag. They inspect the facility and verify the process flow diagram and do the nutritional analysis. We then take the product, test it and specify the process to destroy spoilage organisms and pH for safety. The processor has to have our letter on file and use our information to get FDA approval so the product can be sold.

**Food Preservation:** The goals and objectives of the food preservation program include: 1) to increase the number of people who use best practices for home food preservation, 2) to prevent food-borne illnesses by teaching appropriate home food preservation methods, and 3) to increase access to affordable, nutritious foods by helping people to feel comfortable and confident in preserving their own food at home. Using tested procedures and recipes will help to prevent serious food-borne illnesses while preserving the quality of the food.

chute side training session where they must demonstrate competence in handling and administering vaccines. Recertification is required every two years. The program has the following objectives: 1) provide BQA certification training opportunities for WV beef and dairy producers; 2) enhance production, feeder cattle marketing and leadership opportunities for WV beef and dairy producers participating in the program; 3) develop and share educational materials for Level I & II training with other Mid Atlantic member states; 4) provide opportunities to include BQA in the Dairy Quality Assurance programs; 5) develop and deliver curriculum for a Youth BQA program targeting 4-H and FFA livestock exhibitors; and 6) create and exhibit educational materials and displays for use at short courses, fairs, festivals and expositions to better educate producers and consumers about BQA.

**3. Program existence :** Mature (More than five years)

**4. Program duration :** Long-Term (More than five years)

**5. Expending formula funds or state-matching funds :** Yes

**6. Expending other than formula funds or state-matching funds :** Yes



**V(B). Program Knowledge Area(s)**

## 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
501	New and Improved Food Processing Technologies	25%			
502	New and Improved Food Products	50%			
504	Home and Commercial Food Service	25%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)****1. Situation and priorities**

WVU Extension is working toward reducing the incidence of food-borne illness and providing a safer food supply by eliminating causes of microbial resistance to contaminants, education consumer and food safety professionals, and developing food processing technologies to improve safety. To do this, we conduct the WV BQA certification program which follows the guidelines established by the Mid-Atlantic BQA program where producers are required to participate in (1) a Level I class room training program and (2) a Level II chute side training session where they must demonstrate competence in handling and administering vaccines. We also deliver curriculum for a Youth BQA program. We also conduct the Acidified Foods School which is a subset of the Better Process Control School. The school is required for processors of shelf-stable acidified foods. Lastly, we have enhanced our home food preservation program because of a renewed interest in canning home-grown foods due to the need of families for low-cost nutritious foods. We conduct general preservations classes, pressure cooker monitoring training, and specialized food preservation classes such as Venison 101.

**2. Scope of the Program**

- In-State Extension

**V(D). Planned Program (Assumptions and Goals)****1. Assumptions made for the Program**

1. The BQA program will enhance production, feeder cattle marketing and leadership opportunities for WV beef and dairy producers participating in the program
2. Before any product can be actually produced and sold in WV, a process authority has to approve the process and tell them what records to keep.
3. Extension can provides the approval service for free - if they go out of state it cost about \$100 per food.
4. If home canners learn appropriate home food preservation methods they can prevent food-borne illnesses.
5. If low-income WV citizens learn appropriate food preservation methods, they will increase access to affordable, nutritious foods because they will be confident in preserving their own food at home.
6. Using tested procedures and recipes will help to prevent serious food-borne illnesses while preserving the quality of the food.

**2. Ultimate goal(s) of this Program**

The goals and objectives of the program are:

- 1) to provide BQA certification training opportunities for WV beef and dairy producers
- 2) to enhance production, feeder cattle marketing and leadership opportunities for WV beef and dairy producers participating in the program
- 3) to develop and share educational materials for Level I & II training with other Mid Atlantic member states
- 4) to provide opportunities to include BQA in the Dairy Quality Assurance programs
- 5) to develop and deliver curriculum for a Youth BQA program targeting 4-H and FFA livestock exhibitors;
- 6) to create and exhibit educational materials and displays for use at short courses, fairs, festivals and expositions to

better educate producers and consumers about BQA

7) to provide acidified food training for food processors in WV

8) to test acidified food products and specify the process to destroy spoilage organisms and pH for safety.

9) to increase the number of people who use best practices for home food preservation

10) to prevent food-borne illnesses by teaching appropriate home food preservation methods

11) to increase access to affordable, nutritious foods by helping people to feel comfortable and confident in preserving their own food at home.

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	2.0	0.0	0.0	0.0
2012	2.0	0.0	0.0	0.0
2013	2.0	0.0	0.0	0.0
2014	3.0	0.0	0.0	0.0
2015	3.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

A Beef Quality Assurance (BQA) Program will be conducted in the state. BQA training provides an opportunity for direct contact with the producers and incorporates a method of "hands on" teaching. The WV BQA certification program follows the guidelines established by the Mid-Atlantic BQA program where producers are required to participate in (1) a Level I classroom training program and (2) a Level II

The Acidified Foods School will be held in WV. The Acidified Foods School is a subset of the Better Process Control School. The school is required for processors of shelf-stable acidified foods.

Food preservations classes will be held for WV citizens to to increase the number of people who use best practices for home food preservation. This includes canning and preservation classes, pressure cooker guage monitoring, and Venison 101.

chute side training session where they must demonstrate competence in handling and administering vaccines. Recertification is required every two years. A youth BQA curriculum is will also be implemented.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● Web sites</li> <li>● Other 1 (email)</li> <li>● Other 2 (social media)</li> </ul>

**3. Description of targeted audience**

WV citizens who can or preserve foods, commercial food processors, beef producers, WVU Extension agents

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	<b>Direct Contact Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
2011	1000	4000	1000	650
2012	1010	4040	1010	657
2013	1020	4080	1020	664
2014	1030	4120	1030	671
2015	1040	4160	1040	678

**2. (Standard Research Target) Number of Patent Applications Submitted**

2011:0                      2012:0                      2013:0                      2014:0                      2015:0

**3. Expected Peer Review Publications**

<b>Year</b>	<b>Research Target</b>	<b>Extension Target</b>	<b>Total</b>
2011	0	0	0
2012	1	0	0
2013	1	0	0
2014	1	0	0
2015	1	0	0

## V(H). State Defined Outputs

### 1. Output Target

- Number of educational activities

<b>2011:200</b>	<b>2012:202</b>	<b>2013:204</b>	<b>2014:206</b>	<b>2015:208</b>
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- Number of educational materials created or updated

<b>2011:15</b>	<b>2012:16</b>	<b>2013:17</b>	<b>2014:18</b>	<b>2015:19</b>
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- Number of educational materials distributed

<b>2011:1000</b>	<b>2012:1010</b>	<b>2013:1020</b>	<b>2014:1030</b>	<b>2015:1040</b>
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- Number of professional presentations

<b>2011:2</b>	<b>2012:2</b>	<b>2013:3</b>	<b>2014:3</b>	<b>2015:4</b>
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- Number of outside organizations collaborating within this program area

<b>2011:10</b>	<b>2012:11</b>	<b>2013:12</b>	<b>2014:13</b>	<b>2015:14</b>
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**V(I). State Defined Outcome**

O. No.	Outcome Name
1	Number of participants who increase their knowledge
2	Number of participants who improve or increase skills
3	Number of participants who change their attitudes or opinions
4	Number of participants who are motivated to change their behavior
5	Number of participants who change a behavior or use a new skill
6	Number of participants who train others
7	Amount of money raised by participants to support the program
8	Number of people certified or license to practice in the field
9	Number of groups or organizations that change their procedures and/or policies
10	Number of new groups or organizations that are established or enhanced
11	Number of physical or social effects, such as disease, pollution, or crime, that are reduced or eliminated
12	Number of economic improvements
13	Number of environmental improvements

**Outcome # 1**

**1. Outcome Target**

Number of participants who increase their knowledge

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:1000                      2012:1010                      2013:1020                      2014:1030                      2015:1040**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Number of participants who improve or increase skills

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:800                      2012:808                      2013:816                      2014:824                      2015:832**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Number of participants who change their attitudes or opinions

**2. Outcome Type :** Change in Knowledge Outcome Measure

**2011:500                      2012:505                      2013:510                      2014:515                      2015:520**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 4**

**1. Outcome Target**

Number of participants who are motivated to change their behavior

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2011:250</b>	<b>2012:252</b>	<b>2013:254</b>	<b>2014:256</b>	<b>2015:258</b>
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**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 5**

**1. Outcome Target**

Number of participants who change a behavior or use a new skill

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2011:100</b>	<b>2012:101</b>	<b>2013:102</b>	<b>2014:103</b>	<b>2015:104</b>
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**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 6**

**1. Outcome Target**

Number of participants who train others

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2011:25</b>	<b>2012:26</b>	<b>2013:27</b>	<b>2014:28</b>	<b>2015:29</b>
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**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies

- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 7**

**1. Outcome Target**

Amount of money raised by participants to support the program

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:1000                      2012:1010                      2013:1020                      2014:1030                      2015:1040**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 8**

**1. Outcome Target**

Number of people certified or license to practice in the field

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:25                      2012:26                      2013:27                      2014:28                      2015:29**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 9**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies



**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:10                      2012:11                      2013:12                      2014:13                      2015:14**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 10**

**1. Outcome Target**

Number of new groups or organizations that are established or enhanced

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:0                      2012:1                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 11**

**1. Outcome Target**

Number of physical or social effects, such as disease, pollution, or crime, that are reduced or eliminated

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:1                      2012:1                      2013:1                      2014:1                      2015:1**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 12**

**1. Outcome Target**

Number of economic improvements

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2011:2</b>	<b>2012:2</b>	<b>2013:2</b>	<b>2014:2</b>	<b>2015:2</b>
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**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 13**

**1. Outcome Target**

Number of environmental improvements

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2011:0</b>	<b>2012:1</b>	<b>2013:1</b>	<b>2014:1</b>	<b>2015:1</b>
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**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 504 - Home and Commercial Food Service

**4. Associated Institute Type(s)**

- 1862 Extension

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges

**Description**

{NO DATA ENTERED}

**V(K). Planned Program (Evaluation Studies and Data Collection)**

**1. Evaluation Studies Planned**

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)

**Description**

Workshop evaluations using after, retrospective, and pre-post methodologies  
Testing of products  
Observations of trainees performing procedures correctly

**2. Data Collection Methods**

- Whole population
- Mail
- On-Site
- Observation
- Tests

**Description**

{NO DATA ENTERED}

**V(A). Planned Program (Summary)****Program # 8****1. Name of the Planned Program**

Sustainable Energy

**2. Brief summary about Planned Program**

Two research studies are being conducted in WV that related to sustainable energy goals and objectives. The first involves three mine sites in West Virginia that have been selected to establish switchgrass. Three varieties of switchgrass were randomly assigned and planted into 0.4 half plots, which were replicated three times for a total of nine plots at each site. Planting was conducted in May of 2008. The varieties of Carthage, Cave-in-Rock and Shawnee were chosen for their favorable growing characteristics and adaptation to West Virginia's climate. Another reclaimed mine site in southwestern Pennsylvania was selected to study carbon sequestration of different aged switchgrass stands. Data for SOC, total C and several other chemical and physical factors including, pH, electrical conductivity, bulk density and nutrient concentration will be presented.

The second study involves the survival and growth of hardwoods on surface mines in West Virginia. Research is being conducted to evaluate tree survival and growth in weathered brown sandstone and in unweathered gray sandstone. Brown and gray sandstone are often substituted when not enough native topsoil is available for salvage. Three, 2.8-ha plots were constructed with either 1.5 m or 1.2 m of weathered brown sandstone, or 1.5 m of unweathered gray sandstone at the surface. Half of each 2.8-ha plot was compacted, where dozer tracks completely covered the surface, while the other half had only one pass of a dozer. In March 2005, 11 hardwood species were commercially planted.

**3. Program existence :** Intermediate (One to five years)

**4. Program duration :** Medium Term (One to five years)

**5. Expending formula funds or state-matching funds :** Yes

**6. Expending other than formula funds or state-matching funds :** Yes

**V(B). Program Knowledge Area(s)****1. Program Knowledge Areas and Percentage**

<b>KA Code</b>	<b>Knowledge Area</b>	<b>%1862 Extension</b>	<b>%1890 Extension</b>	<b>%1862 Research</b>	<b>%1890 Research</b>
136	Conservation of Biological Diversity	10%			
403	Waste Disposal, Recycling, and Reuse	70%			
605	Natural Resource and Environmental Economics	20%			
	<b>Total</b>	100%			

**V(C). Planned Program (Situation and Scope)****1. Situation and priorities**

Surface mined areas originally reclaimed for pasture and hay land post-mining land uses in Appalachia are being converted to forestland. The compacted soils and competitive ground cover must be mitigated before tree planting.

West Virginia was selected to establish switchgrass on for this experiment (Pennsylvania was selected to study carbon sequestration of different aged switchgrass stands.). The varieties of Carthage, Cave-in-Rock and Shawnee were chosen for their favorable growing characteristics and adaptation to West Virginia's climate.

The WVU Extension is interested in the survival and growth of hardwoods on surface mines in West Virginia. Therefore, they are involved in research to evaluate tree survival and growth in weathered brown sandstone and in unweathered gray sandstone. Brown and gray sandstone are often substituted when not enough native topsoil is available for salvage.

**2. Scope of the Program**

- In-State Research
- Multistate Research

**V(D). Planned Program (Assumptions and Goals)**

**1. Assumptions made for the Program**

Surface mined areas originally reclaimed for pasture and hay land post-mining land uses in Appalachia can be converted to forestland. The compacted soils and competitive ground cover must be mitigated before tree planting. Hardwood trees will survive and grow in weathered brown sandstone and in unweathered gray sandstone.

**2. Ultimate goal(s) of this Program**

The objective of survival and growth of hardwoods on surface mines in West Virginia research is to evaluate tree survival and growth in weathered brown sandstone and in unweathered gray sandstone.

**V(E). Planned Program (Inputs)**

**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	2.0	0.0	0.0	0.0
2012	2.0	0.0	0.0	0.0
2013	2.0	0.0	0.0	0.0
2014	2.0	0.0	0.0	0.0
2015	2.0	0.0	0.0	0.0

**V(F). Planned Program (Activity)**

**1. Activity for the Program**

Three mine sites in West Virginia were selected to establish switchgrass on for this experiment. Three varieties of switchgrass were randomly assigned and planted into 0.4 half plots, which were replicated three times for a total of nine plots at each site. Planting was conducted in May of 2008. The varieties of Carthage, Cave-in-Rock and Shawnee were chosen for their favorable growing characteristics and adaptation to West Virginia's climate. Another reclaimed mine site in southwestern Pennsylvania was selected to study carbon sequestration of different aged switchgrass stands. Data for SOC, total C and several other chemical and physical factors including, pH, electrical conductivity, bulk density and nutrient concentration will be presented.

Three, 2.8-ha plots were constructed with either 1.5 m or 1.2 m of weathered brown sandstone, or 1.5 m of unweathered gray sandstone at the surface. Half of each 2.8-ha plot was compacted, where dozer tracks completely covered the surface, while the other half had only one pass of a dozer. In March 2005, 11 hardwood species were commercially planted.

**2. Type(s) of methods to be used to reach direct and indirect contacts**

**Extension**

<b>Direct Methods</b>	<b>Indirect Methods</b>
-----------------------	-------------------------

- |                                                                                                  |                                                                                                                                    |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Demonstrations</li> <li>• Other 1 (Research)</li> </ul> | <ul style="list-style-type: none"> <li>• Newsletters</li> <li>• Web sites</li> <li>• Other 1 ( )</li> <li>• Other 2 ( )</li> </ul> |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

**3. Description of targeted audience**

Researchers in sustainable energy, specifically the survival and growth of hardwoods on surface mines.

**V(G). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	10	100	0	0
2012	20	110	0	0
2013	30	120	0	0
2014	40	130	0	0
2015	50	140	0	0

**2. (Standard Research Target) Number of Patent Applications Submitted**

**2011:0                      2012:0                      2013:0                      2014:0                      2015:0**

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2011	1	0	0
2012	1	0	0
2013	1	0	0
2014	1	0	0
2015	1	0	0

## V(H). State Defined Outputs

### 1. Output Target

- Number of educational materials created or updated

<b>2011:1</b>	<b>2012:2</b>	<b>2013:3</b>	<b>2014:4</b>	<b>2015:5</b>
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- Number of educational materials distributed

<b>2011:10</b>	<b>2012:20</b>	<b>2013:30</b>	<b>2014:40</b>	<b>2015:50</b>
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- Number of professional presentations

<b>2011:1</b>	<b>2012:2</b>	<b>2013:3</b>	<b>2014:3</b>	<b>2015:3</b>
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- Number of outside organizations collaborating within this program area

<b>2011:2</b>	<b>2012:3</b>	<b>2013:4</b>	<b>2014:5</b>	<b>2015:6</b>
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**V(I). State Defined Outcome**

O. No.	Outcome Name
1	Number of groups or organizations that change their procedures and/or policies
2	Number of economic improvements
3	Number of environmental improvements



**Outcome # 1**

**1. Outcome Target**

Number of groups or organizations that change their procedures and/or policies

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:1                      2012:2                      2013:3                      2014:4                      2015:5**

**3. Associated Knowledge Area(s)**

- 136 - Conservation of Biological Diversity
- 403 - Waste Disposal, Recycling, and Reuse

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Number of economic improvements

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:1                      2012:2                      2013:3                      2014:4                      2015:5**

**3. Associated Knowledge Area(s)**

- 136 - Conservation of Biological Diversity
- 403 - Waste Disposal, Recycling, and Reuse
- 605 - Natural Resource and Environmental Economics

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Number of environmental improvements

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2011:1                      2012:1                      2013:2                      2014:2                      2015:3**

**3. Associated Knowledge Area(s)**

- 136 - Conservation of Biological Diversity
- 403 - Waste Disposal, Recycling, and Reuse
- 605 - Natural Resource and Environmental Economics

#### **4. Associated Institute Type(s)**

- 1862 Extension

#### **V(J). Planned Program (External Factors)**

##### **1. External Factors which may affect Outcomes**

- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges

##### **Description**

{NO DATA ENTERED}

#### **V(K). Planned Program (Evaluation Studies and Data Collection)**

##### **1. Evaluation Studies Planned**

- Before-After (before and after program)
- Time series (multiple points before and after program)
- Comparison between locales where the program operates and sites without program intervention

##### **Description**

{NO DATA ENTERED}

##### **2. Data Collection Methods**

- Sampling
- Observation
- Tests

##### **Description**

{NO DATA ENTERED}