

2012 West Virginia University Extension Plan of Work

Status: Accepted

Date Accepted: 05/26/2011

I. Plan Overview

1. Brief Summary about Plan Of Work

This year, the leadership at WVU Extension has undergone a process of re-examining its plan of work in relationship to the needs of West Virginia citizens, the current financial and programmatic capacity of WVU Extension, the needs of West Virginia University embodied in its new strategic plan, and the priorities of areas of the National Institute of Food and Agriculture. Another impetus for re-examination has been WVU Extension's work toward building a reporting system which better captures information related to the work of WVU Extension and will assist faculty with the reports they need to produce within their plans of work. The latter effort has resulted in a list of program focus areas and related objectives which will be used to guide our work in 2013 and beyond.

Needs of West Virginia citizens and programmatic capacity

In determining the direction in which WVU Extension will move ahead in 2013 and beyond, the leadership has taken into consideration both the needs of West Virginia citizens and the organization's programmatic capacity. No organization can do everything, so WVU Extension has selected reasonable goals and objectives based upon the overall needs of citizens.

- Small farm agriculture support and development - West Virginia has a predominance of small farm operations. We are committed to helping small family farmers find ways to ensure a safe food supply and we work with rural landowners to develop alternative enterprises.
- Health promotion and chronic disease prevention -- A review of West Virginia health statistics quickly shows that our citizens would benefit from educational interventions in health and nutrition, designed to address obesity and resulting chronic diseases. WV is ranked second in obesity among the states, and first in the combined overweight and obesity rate category, (<http://www.statemaster.com/state/WV-west-virginia/hea-health>).
- Family/primary relationship support and development -- West Virginia has the fourth highest divorce rate in the nation, meaning that many children are affected by this dramatic change in the structure of the family. WVU Extension program will help adults and youth facing disruptions to family life and help them avoid the negative consequences. The median household income in West Virginia ranks 49th out of 51 reporting states and territories. With the challenge of feeding and clothing families on small incomes, West Virginia citizens will benefit from financial family planning initiatives provided by WVU Extension (<http://www.statemaster.com/state/WV-west-virginia/eco-economy>).
- Youth development - The overall population of West Virginia is estimated by US Census data to be 1,819,777. Of that number, 21.2 percent or 385,792 are under 18 years of age. Of these many are from low-resource families and many, if they go to college, will be first-time college graduates in their

families. WVU Extension through its 4-H and youth development program and its youth agriculture and youth nutrition programs has an opportunity to affect their future health, education, and career status. 4-H programs in 2013 will be focused on healthy lifestyles, science, technology, engineering, and math (STEM) and citizenship, including global citizenship.

- Community development - West Virginia towns and municipalities struggle to compete in the global economy. WVU Extension delivers educational program that promote community projects, develop leadership capacity, expand and attract employment, improve retail opportunities, and provide assistance on downtown revitalization, tourism and other aspects of community development.

- Workforce development - The West Virginia workforce is need of skill advancement and training in safety and health procedures related to the workplace. Activities in this program area are funded by grants, contracts, and fees for services from employers, workers, and unions inside and outside of West Virginia. Programs are conducted in collaboration with labor unions and other organizations, including an annual fire school; training for airport staff; safety and health training modules, classes in construction and general industry, fall protection training in residential and the modular home building industry, classes for veteran and novice union representatives.

- Environment and natural resource protection - West Virginia contains 445,000 acres of wildlife management areas and state forests; 1.1 million acres of national forest; 22,000 acres of public impoundments; and 100,000 acres of fishable streams and rivers. West Virginia's wildlife resources need to be protected for the use and enjoyment of its citizens. The natural environment in WV is also provides income through forest and non-timber product and sustainable energy sources industries.

Financial capacity

State funding for the WVU Extension Services is currently \$12.24 million (36% of total budget). The total annual operating budget is approximately \$34 million. As in past years, WVU Extension will continue to use funds from the State of WV to leverage other funds. In the past we have raised 36 percent of our total budget through competitive grants, fees, and individual, foundation, and corporate gifts and expect to continue to do that or increase the percentage. County partners (largely county commissions and boards of education) contribute 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. We expect funding from grants and fees to increase in 2013 as it has every year since 1995.

Linking strategically with the West Virginia University

WVU has recently issued a new strategic plan. The work of WVU Extension is best exemplified in goal five of the WVU Strategic Plan: Enhance the well-being and the quality of life of the people of West Virginia. The objectives include:

- Create an academic health system and health professions programs that enhance the well-being of West Virginians.
- Increase opportunities for the citizens of the state through workforce education, lifelong learning, and outreach to every county.
- Promote sustainable economic development and a cultural environment that improve the quality of life throughout the state.

The first action step under goal five of West Virginia University's strategic plan specifically mentions the work and contribution of WVU Extension. "Expand outreach efforts to connect the campuses to citizens and communities throughout the state. Provide resources and information to equip West Virginia University Extension agents, and other personnel engaged in outreach and care, for a broader role as ambassadors for the institution."

Linking with the priorities of the National Institute of Food and Agriculture

Last year, the National Institute on Foods and Agriculture (NIFA) outlined the priority areas under which it would report outcomes and award funds. We have tried to link those five priority areas, plus three of our own (4-H and youth development, strengthening families, and community and workforce development), to our Plan of Work. In our reporting system all goals and objectives are ultimately linked to our eight planned programs.

1. Future Plans

The following is a list of our future plans.

1. West Virginia is home to one of the largest Marcellus Shale natural gas deposits on the East Coast. As landowners and community members began asking questions of WVU Extension agents about this topic, we began our work to learn more, gather experts and create the resources to respond. The WVU Extension Service's Agriculture and Natural Resources Program Unit formed a team to develop educational programming about natural gas exploration in the Marcellus shale. Team members include county extension agents, WVU geologists and water quality experts, representatives of the DEP, and representatives from industry, community and environmental groups. Initial funding for the educational programs is provided by Chesapeake Energy, EQT, and Dominion. The growth and development of the Marcellus shale in West Virginia creates both opportunities and concerns for public and private landowners, local communities, and local and state governments. In 2013, the expertise and knowledge that the citizens of West Virginia need to make informed decisions about the oil and natural gas industry will be formalized into educational programs and educational resources.

2. Science, Technology, Engineering, and Math (STEM) will be developed and promoted within our 4-H and Youth Development program over the next several years. This year, WVU Extension has hired a new STEM specialist and he has received funding to develop STEM toolkits to be used in each of the 55 counties in WV. These toolkits will give youth the opportunity to do hands-on activities with the STEM disciplines and ultimately increase interest in the study of science and science careers. Plans are being made to incorporate STEM activities into all of our youth programs including camps, clubs, youth agriculture and healthy lifestyle programs.

3. Plans are being made to continue the work begun this year, to develop and expand WVU Extension's outreach to Guanajuato, Mexico. As a result of the WV-Guanajuato 4-H training & linkages project, the University of Guanajuato in Mexico invited WVU Extension Service to bring a delegation of 20 participants to present and engage in a colloquium and relationship-building among educators and high school students representing West Virginia, Pennsylvania, and Guanajuato. This program was funded by the Director of Extension, University of Guanajuato, Mexico, the 4-H Extension Agent, University of Guanajuato, Mexico, ICA Extension Professionals, the Center for Patagonia Ecosystem Research, Patagonia Learning Adventures, Families in Villa Ortega, Patagonia, Chile, IFYE National Conference Planning Committee, and WVU.

4. WVU Extension continues to develop its reporting system which will allow faculty and staff to keep accurate data on its work and the audiences who benefit from its programs. This year, the content of the system has been formed and we are in the process of testing it. Next year, we expect that faculty and staff will use the system and that our data will be greatly improved. By 2013, we are hoping that the work time

that faculty use to report in the promotion and tenure system will be greatly reduced and that more time can be devoted to implementing programs and serving West Virginians.

5. Cyberbullying is hurting kids and their families. Seeing that damage in her own community. A WVU Extension 4-H agent in the Wyoming County WVU Extension Service Office, led a multicounty team that developed "Who Is Hiding Behind That Screen?" The program will be implemented on both state and national levels.

6. The WVU Extension Service's Small Farm Center is showing farmers how to retain more of the \$7 billion West Virginians spend on food each year. Extension educators are helping farmers see their products as "food for customers" rather than as "crops for sale. Extension agents remain the backbone of local farmers markets. And the local foods movement is making farmers markets more prevalent and more profitable. The annual Extension-led Small Farm Conference introduces farmers to new methods for meeting consumers' needs and for creating food pathways to greater profits.

7. The statistics for West Virginia's ATV-related deaths and injuries are alarming - and WVU Extension has a program that is tackling the problem through a curriculum and awareness programs to educate families and youths on safety measures for riding ATVs. The curriculum, the first national 4-H youth curriculum for ATV safety , will provide research, education, and service to the people of West Virginia and will be distributed nationally.

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

Year	Extension		Research	
	1862	1890	1862	1890
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
2016	168.0	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?

Currently, West Virginia Extension engages in multistate Extension activities in all eight planned program areas. In 2010, the amount of the multistate Extension activity funding equaled about eight percent of the budget. We expect this to grow in future years.

1. WVU-ES will continue to build entrepreneurial efforts in West Virginia counties and counties in neighboring states. WVU-ES will continue to participate in The Power of 32, a regional visioning initiative that involves people across 32 counties in Maryland, Ohio, Pennsylvania, and West Virginia in creating a shared vision for the region's future.
2. WVU-ES will continue to work toward quipping citizens in the region with work skills they need to secure and keep jobs. Other multi-state and integrated efforts include safety and health initiatives.
3. WVU-ES will continue to participate in collaborative environmental research studies in WV and parts of PA and OH. Federal funds have been secured to conduct phase I and phase II environmental studies in the region. Faculty members participate with the USDA-NIFA Mid-Atlantic Water Program. This program is an affiliation of personnel from regional institutions who collaborate on regional water issues and are now focusing on riparian buffer placement in the Chesapeake Bay watershed will continue.
4. Beef Systems for Appalachia is a multi-state program funded through USDA/ARS Appalachian Farming Systems Research Center in Beaver, WV. West Virginia University, Virginia Tech and Clemson University participate. The current program focuses on sustainable forage-beef cattle systems, with emphasis on production, economic, and environment. There is a consortium to conduct pasture-beef systems research that meets the needs of Appalachia for low purchased inputs, sustainable production, diversification, added-value products sold off-farm, and maintenance of the rural environment for the benefit of society.
5. WVU-ES is involved in a number of multistate programs focused on youth development. These include Health Rocks, STEM education, Children Youth and Families at Risk (CYFAR) and global education initiatives involving Penn State University Extension. In 2013, WVU-ES plans to continue these programs, and in particular become more involved in multistate STEM initiatives.

6. WVU-ES will continue to be involved in Camp NEW (Nutrition, Education, Wellness) You. It combines effectiveness research with Extension-lead outreach to children and families. The program is a partnership among WVUES, the College of Physical Activity and Sport Science (CPASS), the Health Sciences Center, the Davis College of Agriculture, Natural Resources and Design, and Marshall University.

7. West Virginia Child Obesity Prevention is an integrated project that was just funded by the Agriculture and Food Research Initiative. It is a partnership among WVUES, the Davis College, the Health Science Center, and the Regional Research Institute. The project will measure the nutrition and physical activity environment and design and implement a curriculum to promote healthy behaviors in families.

8. WVUES is included in the USDA multi-state project, NC 1033 "Local food choices, eating patterns, and population health." The goal of this project is to determine the impact of food systems on population health.

9. WVU-ES collaborates with colleagues from other states to deliver a national survey of state regulations regarding education for divorcing parents. The next step is to test a curriculum that can be used to provide mandatory parenting education for divorcing parents.

10. WVUES was invited to join phase 3 of the dissemination research project and will be collaborating with the PROSPER team to implement the model in WV.

2. How will the planned programs address the needs of under-served and under-represented populations of the State(s)?

WVU-ES monitors its multistate and integrated programs, as it does all of its programs, to assure compliance with social justice and diversity guidelines. WVU-ES employs a diversity specialist who reports to the director of human resources, but also holds an academic appointment and works with the unit director to ensure programs are addressing the needs of under-served and under-represented populations. In addition, WVU-ES has an extension-wide "Serving the Underserved program team. In addition, WVU-ES partners with the Extension service at West Virginia State University on some programs, particularly in the nutrition and family program areas. West Virginia State is the 1890 land-grant university in West Virginia, and as such has a special mission to minority populations, situated in the southern parts of the state.

West Virginia has a low minority rate - about four to five percent of the population. In West Virginia when we speak of reaching the under-served, we speak largely about reaching out to low-resource individuals. To do this, training opportunities called poverty simulations, are conducted each year throughout the state. These poverty simulations are offered to organizations, schools, and agencies within West Virginia and in neighboring states. Poverty simulations will continue to be offered in 2013.

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

Many of our multistate and integrated programs have to report outcomes and impacts directly to the agencies that fund each program, however, we allow the outcomes and impacts from these programs to also be entered into our new reporting system. We will be able to keep track of multistate and integrated programs, apart from our other programs. The

reporting system allows opportunity for both quantitative and qualitative reporting.

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

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. To the extent that faculty members are involved in multistate and integrated programs, they will be reviewed as well. 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 groups
- Targeted invitation to non-traditional stakeholder groups
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to non-traditional stakeholder individuals
- Targeted invitation to selected individuals from general public
- Survey of traditional stakeholder groups
- Survey of traditional stakeholder individuals

Brief explanation.

At special events where the public gathers, such as the WVU Day at the Legislature and the West Virginia State Fair, WVU Extension will make an effort to gather post-evaluative information on stakeholders' satisfaction. We will also gather evaluative information at most educational events all year round. This information not only tells us if participants are satisfied, but also whether and how participants have benefited. The results of these evaluative efforts are generally positive, but critical comments are always used to inform program improvement.

An examination of the Extension Brand Value Research results of 365 individuals/consumers interviewed in West Virginia has helped us understand the issues surrounding the awareness and knowledge of citizens of West Virginia about Extension's work. Overall, West Virginia's statistics are considerably higher than the national average. For instance, 61 percent of West Virginians have heard about their state's Extension program as compared to 37 percent nationally. Additionally, 11 percent said that they have used WVU Extension in the past 12 months, as compared to 5 percent nationally. Of the programs of WVU-ES, 4-H is by the far the best known. However, much work needs to be done in getting out the word that Extension can provide educational resources to help West Virginians lead healthier, more productive lives.

In 2011, a survey of stakeholder needs will be conducted. This survey will help us understand how we can work with other related groups and organizations to meet the needs of West Virginians.

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
- Needs Assessments

Brief explanation.

A member of the administrative staff will continue to attend all Extension Service Committees in each of our 55 counties. These committees are made up of community members including local government officials, members of the Board of Education, as well as the Extension agent.

Members of our staff will also attend regular meetings of associations connected with Extension such as the Farm Bureau, professional associations such as cattleman, oil and gas, poultry, etc. We will distribute our survey to these groups.

WVU-ES agents are fully involved in the CEOS (Community Education Outreach Service) formerly our Extension homemaker group. These women are actively involved in leadership roles in the community and directly influence Extension programming.

Each of our unit directors has identified stakeholders who have interest in the work of WVU-ES. The following chart lists the stakeholder organizations that we will focus our inquiry on:

Public Officials

Legislators
County Extension Service Committee Members
State Treasurer's Office
Board of Education Members
County Commission Members

Professional Organizations

Farm Bureau Members
Cattleman Association
Poultry Association
Oil and Gas Association
Conservation Association
Fairs and Festival Association
Firefighter Association
AFL-CIO

Extension-related groups

4-H Leaders
Collegiate 4-H members
CEOS members/leaders

Master Gardeners
Visiting Committee
Development Council Members
Other
WVU faculty/administrators

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
- Survey of traditional Stakeholder groups
- Survey of traditional Stakeholder individuals
- Survey of the general public
- Meeting specifically with non-traditional individuals

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. The Evaluation Specialist was recently added to this team in order to keep leaders informed about our program outcomes and how they can inform decision making. 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.

Assessment data is processed at the state level for most programs. Currently, there are about 15 program teams that meet quarterly or as needed. These teams, consisting of agents, specialists, and upper-level staff have the responsibility of making recommendations to WVUES administration about new programming based on emerging needs in the state. Membership in the teams is fairly consistent, but members may resign and join other teams, based on their plan of work.

The Associate Provost for Extension and Outreach, David Miller, serves a dual role as representative of the University President to the WV legislature. Mr. Miller regularly meets with legislators and other officials to discuss the work of Extension and how the State of WV can support Extension through state appropriations.

We have developed a survey which we will administer to our stakeholder groups in 2011. We will gather information about their perceptions of our work and how what we do fits into their organization's mission and goals so that we might serve them and work with them. Questions have been focused on these major themes:

- How does/can Extension address the critical issues of strategic importance to you?
- How does/can Extension address the needs of under-served populations in our state?
- How well does Extension communicate the results of its work to you?

- How can we improve the effectiveness and/or efficiency of our programs?

We plan to use this information to strategically plan for the future. The results of this survey will be reported in next year's Federal report.

3. A statement of how the input will be considered

- In the Budget Process
- To Identify Emerging Issues
- In the Staff Hiring Process
- In the Action Plans
- To Set Priorities

Brief explanation.

In the past, we have used input given us by stakeholders to plan new initiatives for WVU Extension. We will continue to do so in future years. For example in 2010 we added programs and personnel for work in the Marcellus Shale natural gas deposits on the East Coast; Science, Technology, Engineering, and Math (STEM) programming; international/global programming; ATV safety training; and cyber bullying education. It is difficult to project what will be the pressing needs of 2013, but we plan to be open to adding or subtracting programs based on information from our stakeholders as well as the priority areas of NIFA.

V. Planned Program Table of Content

S. No.	PROGRAM NAME
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

Goals and Objectives

In 2013, the childhood obesity planned program at West Virginia University Extension will work towards increasing the capacity of youth, adults and families to make informed, science-based decisions which prevent chronic disease and maintain healthy weight status through physical activity and intake of nutrient-dense foods.

1. Participants will gain or increase their knowledge of:
 - Healthy lifestyle skills and practices
 - Chronic disease (diabetes, heart disease, cancer, obesity, and others) and associated risk factors
 - Nutrition including food selection and preparation
2. Participants will gain or improve skills in:
 - Healthy food preparation
 - Healthy food selection and purchasing
 - Choosing healthy physical activities
3. Participants will change behavior or utilize skills such as:
 - Increasing physical activity or decrease the amount of sedentary time
 - Improving targeted eating behaviors
 - Complying with health provider guidelines
4. Participants will train others to support health initiatives.
5. Participants will advance to higher knowledge and skill levels in healthy lifestyle professional areas.
6. Local organizations/groups will support healthy lifestyle or childhood obesity initiatives and health promotion programs.
7. New policies and programs will be created to improve access to healthier foods.
8. New collaborations that address healthy lifestyle issues will be formed.
9. State organizations will ask Extension professionals to implemented programs in schools/community.
10. Healthy lifestyle education will be improved because of applied research projects.

What will be done

In 2013 we plan to make direct contact with 45,000 adults in initiatives under the childhood obesity umbrella. We also plan to make direct contact with 140,000 youth. Responsibility for developing and fostering programs to meet the childhood obesity goal will be undertaken primarily by our Nutrition and Health and 4-H and Youth Units and will include the following initiatives:

- 4-H Health Initiative
- A New You
- Active for Life
- Adult Family Nutrition Program
- ATV Safety
- Camp NEW You
- CEOS Health Motivator
- Diabetes Symposium
- Dining with Diabetes
- Health Rocks
- Taking Charge
- Women's Heart Health
- Youth Family Nutrition Program
- Farmers Markets
- Strong Families Eat Together
- Energy Express
- Early Childhood Obesity
- Wild Wonderful Wellness

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

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

1. Assumptions made for the Program

1. Childhood obesity can best be prevented by using a family, community approach that includes county agents working directly with citizens and working with community coalitions. An example of this is the Family Nutrition Program which 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.

2. Research has shown that community coalitions can empower people to make healthy lifestyle changes, which can reduce the prevalence of complications from chronic diseases such as diabetes and improve the health of people with diabetes. Counties have formed coalitions resulting in support groups that provide ongoing education to the participants.

3. Traditionally, the county Extension office is regarded as a safe and appropriate place for nutrition and healthy lifestyle information.

4. To reduce the incidence of communicable diseases and encourage healthy lifestyles among WV children and families we must use innovative and interactive educational program. For example, teaching children at a young age the importance of handwashing as a lifetime practice can be done with an interactive model such as Germ City. Camp NEW You also engages youth in fun, but healthy activity.

5. Community sites can provide seniors with a safe, secure place to exercise and form health awareness groups.

6. Volunteers can be trained and used to engage citizens in healthy lifestyle activities. 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."

7. Social media outlets can be used to provide information and engage rural citizens in healthy lifestyle activities. Our new Wild Wonderful Wellness program uses blogs by staff members to encourage healthy activity. Many have participated in this early effort.

2. Ultimate goal(s) of this Program

Goals and Objectives

In 2013, the childhood obesity planned program at West Virginia University Extension will work towards increasing the capacity of youth, adults and families to make informed, science-based decisions which prevent chronic disease and maintain healthy weight status through physical activity and intake of nutrient-dense foods.

1. Participants will gain or increase their knowledge of:

- Healthy lifestyle skills and practices
- Chronic disease (diabetes, heart disease, cancer, obesity, and others) and associated risk factors
- Nutrition including food selection and preparation

2. Participants will gain or improve skills in:

- Healthy food preparation
- Healthy food selection and purchasing

- Choosing healthy physical activities

3. Participants will change behavior or utilize skills such as:

- Increasing physical activity or decrease the amount of sedentary time
- Improving targeted eating behaviors
- Complying with health provider guidelines

4. Participants who train others to support health initiatives.

5. Participants will advance to higher knowledge and skill levels in healthy lifestyle professional areas.

6. Local organizations/groups will support healthy lifestyle or childhood obesity initiatives and health promotion programs.

7. New policies and programs will be created to improve access to healthier foods.

8. New collaborations that address healthy lifestyle issues will be formed.

9. State organizations will ask Extension professionals to implemented programs in schools/community.

10. Healthy lifestyle education will improve because of applied research projects.

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
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
2016	16.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

In 2013 we plan to make direct contact with 45,000 adults in initiatives under the childhood obesity umbrella. We also plan to make direct contact with 140,000 youth. Responsibility for developing and fostering programs to meet the childhood obesity goal will be undertaken primarily by our Nutrition and

Health and 4-H and Youth Units and will include the following initiatives:

- 4-H Health Initiative
- A New You
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- ATV Safety
- Camp NEW You
- CEOS Health Motivator
- Diabetes Symposium
- Dining with Diabetes
- Health Rocks
- Taking Charge
- Women's Heart Health
- Youth Family Nutrition Program
- Farmers Markets
- Strong Families Eat Together
- Energy Express
- Early Childhood Obesity
- Wild Wonderful Wellness

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	
Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (clinical testing) 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● TV Media Programs ● Web sites other than eXtension ● Other 1 (radio) ● Other 2 (newspaper)

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)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
 - Number of patents submitted
 - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational activities
 - Number of educational materials created or updated
 - Number of educational materials distributed
 - Number of professional presentations
 - Number of outside organizations collaborating within this program area
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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 a behavior or use a new skill
4	Number of participants who train others
5	Number of groups or organizations that change their procedures and/or policies
6	Number of new groups or organizations that are established or enhanced
7	Number of participants who advance to higher knowledge and skill level in healthy lifestyle professional areas
8	Number of state organizations who ask Extension professionals to implement programs in schools/communities

Outcome # 1

1. Outcome Target

Number of participants who increase their knowledge

2. Outcome Type : Change in Knowledge Outcome Measure

2012:30300 2013:30600 2014:31200 2015:31500 2016:32000

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

2012:15150 2013:15300 2014:15450 2015:15600 2016:15750

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 a behavior or use a new skill

2. Outcome Type : Change in Action Outcome Measure

2012:15000 2013:15150 2014:15300 2015:15450 2016:15600

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 # 4

1. Outcome Target

Number of participants who train others

2. Outcome Type : Change in Action Outcome Measure

2012:152 2013:154 2014:156 2015:168 2016:180

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 groups or organizations that change their procedures and/or policies

2. Outcome Type : Change in Condition Outcome Measure

2012:2 2013:2 2014:3 2015:3 2016:4

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 new groups or organizations that are established or enhanced

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:1 2014:1 2015:1 2016:1

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 # 7

1. Outcome Target

Number of participants who advance to higher knowledge and skill level in healthy lifestyle professional areas

2. Outcome Type : Change in Action Outcome Measure

2012:50 2013:55 2014:60 2015:65 2016:66

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 state organizations who ask Extension professionals to implement programs in schools/communities

2. Outcome Type : Change in Condition Outcome Measure

2012:5 2013:6 2014:7 2015:8 2016:9

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 - Planned Evaluation Studies

Description of Planned Evaluation Studies

Each of our Childhood Obesity initiatives conduct post evaluations. Many conduct pre and post evaluations and some collect longitudinal data.

Specifically, 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 and Heart Health conducts pre- and post- evaluation of attitudes and behaviors.

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Youth Development

2. Brief summary about Planned Program

The youth development planned program will address four programmatic areas including 1) citizenship and global education; 2) literacy education, 3) science, technology, engineering and math (STEM), and 4) healthy lifestyles.

1. Developing WV youths into responsible leaders of their state, the country, and the world
 - a. Participants will gain knowledge and skills in:

- Cultural differences and uniqueness
- Responsibility, leadership, communication, decision making, Record keeping
- Finding and selecting service projects
- Mentoring other youth
- Assisting people in poverty situations
- Assessing one's own talents and abilities
- Selecting a mentor or role model

- b. Participants will change behavior or utilize skills including:

- Mentoring or teaching skills to others
- Taking on leadership roles in clubs, camps, or schools
- Seeking out persons different from themselves
- Working more effectively with people living in poverty
- Volunteering in service activities in college and adulthood
- Getting involved in global activities in college and work.

- c. Extension programs will increasingly incorporate global themes in programming.

- d. WV organizations will make policy changes to accommodate people living in poverty.

2. Improving reading skills in youth and engaging adults in teaching children to read.

- Adult participants will improve reading skills with children
- Youth participants will maintain or increase reading skills
- Adult participants will read more frequently to children

3. Creating in youths an appreciation for STEM, and equipping them with skills for technologically advanced society.

- Participants will increase in curiosity/aspirations toward STEM
- Participants will increase in knowledge and skills related to STEM including:
- Participants will apply science learning outside of the 4-H context
- Participants will adopt or use new scientific methods or improved technologies
- 4-Hers will contribute to society using science skills

- 4-Hers will choose science related college majors and careers.
4. Increasing the capacity of youth to maintain a healthy lifestyle.
- Participants will gain knowledge or improve skills such as:
 - Healthy lifestyle skills and practices including nutrition
 - ATV safety
 - Healthy life choices such as schooling, careers, relationships
 - Choosing appropriate friends and group associations
 - Avoiding use of illegal and/or addictive substances
 - Making future plans
 - Participants will change behavior or utilize skills such as:
 - Increasing physical activity
 - Improving targeted eating behaviors
 - Building healthy relationships
 - Avoiding illegal and/or addictive substances
 - Making appropriate personal choices such as schooling, careers, and lifestyles
 - Practicing safe use of ATVs
5. New collaborations that address healthy lifestyle issues will be formed
6. Organizations will ask Extension professionals to implemented programs in schools/community

In 2013 we plan to make direct contact with 21,000 adults in initiatives under the youth development umbrella and 97,285 direct contacts with youth. Responsibility for developing and fostering programs will be undertaken primarily by our 4-H and Youth Unit and will include:

- 4-H Workforce Prep
- Camp Management
- CHISPA
- Collegiate 4-H
- Operation Military Kids
- Post-Secondary Education
- Poverty Education
- WVU 4-H Global Exchange
- WVU Cultural Attache Program
- University of Guanajuato 4-H Service Project
- Young Adult Programs
- Youth Leadership
- Energy Express
- Reading Partners
- Family Storyteller
- 4-H Science Program
- 4-H youth agriculture
- ATV Training
- CYFAR/afterschool
- 4-H Health Initiative
- ATV Safety
- Health Rocks
- Youth Family Nutrition

- 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
806	Youth Development	100%			
	Total	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
- Multistate Extension

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

1. Assumptions made for the Program

1. 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.

2. 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.

3. 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.

4. 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 personal, 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. Developing WV youths into responsible leaders of their state, the country, and the world.

a. Participants will gain knowledge and skills in:

- Cultural differences and uniqueness
- Responsibility, leadership, communication, decision making, Record keeping
- Finding and selecting service projects
- Mentoring other youth
- Assisting people in poverty situations
- Assessing one's own talents and abilities
- Selecting a mentor or role model

b. Participants will change behavior or utilize skills including:

- Mentoring or teaching skills to others
- Taking on leadership roles in clubs, camps, or schools
- Seeking out persons different from themselves
- Working more effectively with people living in poverty
- Volunteering in service activities in college and adulthood
- Getting involved in global activities in college and work.

c. Extension programs will increasingly incorporate global themes in programming.

d. WV organizations will make policy changes to accommodate people living in poverty.

2. Improving reading skills in youth and engaging adults in teaching children to read.

- Adult participants will improve reading skills with children
- Youth participants will maintain or increase reading skills
- Adult participants will read more frequently to children

3. Creating in youths an appreciation for STEM, and equipping them with skills for technologically advanced society.

- Participants will increase in curiosity/aspirations toward STEM
- Participants will increase in knowledge and skills related to STEM including:
- Participants will apply science learning outside of the 4-H context
- Participants will adopt or use new scientific methods or improved technologies
- 4-Hers will contribute to society using science skills

- 4-Hers will choose science related college majors and careers.
4. Increasing the capacity of youth to maintain a healthy lifestyle.
 - Participants will gain knowledge or improve skills such as:
 - Healthy lifestyle skills and practices including nutrition
 - ATV safety
 - Healthy life choices such as schooling, careers, relationships
 - Choosing appropriate friends and group associations
 - Avoiding use of illegal and/or addictive substances
 - Making future plans
 - Participants will change behavior or utilize skills such as:
 - Increasing physical activity
 - Improving targeted eating behaviors
 - Building healthy relationships
 - Avoiding illegal and/or addictive substances
 - Making appropriate personal choices such as schooling, careers, and lifestyles
 - Practicing safe use of ATVs
 5. New collaborations that address healthy lifestyle issues will be formed.
 6. Organizations will ask Extension professionals to implemented programs in schools/community

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
2012	58.0	0.0	0.0	0.0
2013	58.0	0.0	0.0	0.0
2014	58.0	0.0	0.0	0.0
2015	58.0	0.0	0.0	0.0
2016	58.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The youth development planned program will address four programmatic areas including 1) citizenship and global education; 2) literacy education, 3) science, technology, engineering and math (STEM), and 4) healthy lifestyles.

In 2013 we plan to make direct contact with 21,000 adults in initiatives under the youth development umbrella including 97,285 direct contacts with youth. Responsibility for developing and fostering programs will be undertaken primarily by our 4-H and Youth Unit and will include:

- 4-H Workforce Prep
- Camp Management
- CHISPA
- Collegiate 4-H
- Operation Military Kids
- Post-Secondary Education
- Poverty Education
- WVU 4-H Global Exchange
- WVU Cultural Attache Program
- University of Guanajuato 4-H Service Project
- Young Adult Programs
- Youth Leadership
- Energy Express
- Reading Partners
- Family Storyteller
- 4-H Science Program
- 4-H youth agriculture
- ATV Training
- CYFAR/afterschool
- 4-H Health Initiative
- ATV Safety
- Health Rocks

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"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations 	<ul style="list-style-type: none"> • Public Service Announcement • Newsletters • Web sites other than eXtension

3. Description of targeted audience

Youths 9 to 21. More than 85,000 youth are 4-H members and more than 6,000 adult volunteers work directly and indirectly with them.

V(G). Planned Program (Outputs)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
 - Number of patents submitted
 - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational activities
 - Number of outside organizations collaborating within this program area
 - Number of educational materials created or updated
 - Number of professional presentations
 - Number of 4-H educational materials distributed
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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 a behavior or use a new skill
4	Number of participants who train others
5	Number of groups or organizations that change their procedures and/or policies
6	Number of new groups or organizations that are established or enhanced
7	Number of organizations who ask Extension professionals to implement programs in schools/communities.

Outcome # 1

1. Outcome Target

Number of participants who increase their knowledge

2. Outcome Type : Change in Knowledge Outcome Measure

2012:75750 2013:76500 2014:77250 2015:78000 2016:78750

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

2012:25250 2013:25500 2014:25750 2015:25800 2016:25850

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 a behavior or use a new skill

2. Outcome Type : Change in Action Outcome Measure

2012:5050 2013:5100 2014:5150 2015:5200 2016:5250

3. Associated Knowledge Area(s)

- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 4

1. Outcome Target

Number of participants who train others

2. Outcome Type : Change in Action Outcome Measure

2012:1010 2013:1020 2014:1030 2015:1040 2016:1050

3. Associated Knowledge Area(s)

- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 5

1. Outcome Target

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

2. Outcome Type : Change in Condition Outcome Measure

2012:56 2013:57 2014:58 2015:59 2016:60

3. Associated Knowledge Area(s)

- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 6

1. Outcome Target

Number of new groups or organizations that are established or enhanced

2. Outcome Type : Change in Condition Outcome Measure

2012:6	2013:7	2014:8	2015:9	2016:10
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3. Associated Knowledge Area(s)

- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 7

1. Outcome Target

Number of organizations who ask Extension professionals to implement programs in schools/communities.

2. Outcome Type : Change in Condition Outcome Measure

2012:5	2013:5	2014:6	2015:6	2016:7
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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 - Planned Evaluation Studies

Description of Planned Evaluation Studies

WVU Extension, 4-H, conducts evaluations of all of its summer residential camps. Three evaluation instruments are used and extensive analysis is done. Agents participate in the analysis and make recommendations for program improvement.

WVU Extension, 4-H, participates in the national evaluation protocol of the Health Rocks program. It also will contribute to the evaluation of STEM programs recommended by the national 4-H team.

Most educational activities in 4-H conduct overall satisfaction evaluations.

Focus groups will be conducted with youth at camps to discover issues related to emotional and physical safety.

Energy Express gathers a stratified sample of reading assessments - pre and post - from its youth participants. Adult mentors also participated in efficacy evaluations.

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Workforce and Community Development

2. Brief summary about Planned Program

In 2013, the workforce and community development planned program at West Virginia University Extension will work towards developing knowledge and skills related to community development and planning, business retention and expansion, government planning and public policy, tourism; leadership in adults, and professional skills and general work-related skills in workforce participants.

1. Workplace participants will gain knowledge about:
 - Reducing injuries in the workplace
 - Illness and fatalities in the workplace
 - Leisure activities
2. Volunteer trainees will gain knowledge about the WVU-ES volunteer process and procedures.
3. Participants will improve their capacity to perform work-related skills.
4. Local government, non-profit and community organizations members will improve their capacity to operate efficiently, effectively, and economically by improving skills in:
 - Program planning and implementation
 - Setting goals and working toward reaching goals
 - Evaluating information and making decisions
 - Mentoring each other
 - Teach skills to others
 - Supervise volunteers
 - Deliver youth programming
 - Work with volunteers
 - Develop local tourism opportunities
 - Develop strategies for improving the economic status of communities
 - Plan and implement programs for community aesthetics
 - Improve the economic status of their community.
5. Master Gardeners will become certified.
6. West Virginia volunteers will increase the number of hours they contribute.
7. WVU-ES county offices will incorporate volunteer position descriptions into procedures.
8. WVU-ES county offices will use best money practices.
9. Volunteers will become middle managers in county programs, events, and activities.
10. Volunteer policies and procedures will be improved.

11. Camps will be certified by the American Camping Association.
12. Business retention and expansion plans will be completed.
13. Participants will become certified in leadership development.
14. Organizations will ask Extension professionals to train in leadership skills and/or to manage volunteers.
15. Participants will reduce injuries, illness and fatalities in the workplace, leisure activities, and home.
16. Employers will comply with OSHA specified limits for exposure of workers to hazardous substances and conditions.

What will be done

In 2013 we plan to make 42,000 direct contacts with adults in initiatives under the community and workforce development umbrella. We also plan to make 24,541 direct contacts with youth. Responsibility for developing and fostering programs to meet these goals and objectives will be undertaken primarily by our Community Resources and Economic Unit and will include the following initiatives:

- Business Retention and Expansion
- Community Data Analysis
- Community Design Team
- Community Development East
- Community Visioning/Planning/Design
- Downtown Revitalization
- Emergency Planning & Preparation
- Fairs and Festivals
- Feasibility and Economic Impact Assessment Research
- First Impressions
- GIS
- Independent Retail Analysis
- Power of Ten
- Rural Tourism
- Strategic Planning for Development
- 4-H Leadership Development
- CEOS
- Extension Professional Development
- Master Gardener
- Organization Visioning
- Everyone Ready
- Volunteer Management
- Five Keys to Effective Program Management
- Advanced Fire Officer Training
- Aircraft Crash Rescue Firefighting
- WV State Fire Institute
- Labor Force Education

- Institute for Labor Studies and Research
- Safety and Health Extension (OHS)
- Asbestos and contractual projects for construction, general industry and the oil and gas industries
- ServSafe
- Child Care Provider 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
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%			
	Total	100%			

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

1. Situation and priorities

1. Adults in West Virginia need 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

1. 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.

2. Extension has 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.

3. 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

4. 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

In 2013, the workforce and community development planned program at West Virginia University Extension will work towards developing knowledge and skills related to community development and planning, business retention and expansion, government planning and public policy, tourism; leadership in adults, and professional skills and general work-related skills in workforce participants.

1. Workplace participants will gain knowledge about:
 - Reducing injuries in the workplace
 - Illness and fatalities in the workplace
 - Leisure activities
2. Volunteer trainees will gain knowledge about the WVU-ES volunteer process and procedures.
3. Participants will improve their capacity to perform work-related skills.
4. Local government, non-profit and community organizations members will improve their capacity to operate efficiently, effectively, and economically by improving skills in:
 - Program planning and implementation
 - Setting goals and working toward reaching goals
 - Evaluating information and making decisions
 - Mentoring each other
 - Teach skills to others
 - Supervise volunteers
 - Deliver youth programming
 - Work with volunteers
 - Develop local tourism opportunities
 - Develop strategies for improving the economic status of communities
 - Plan and implement programs for community aesthetics
 - Improve the economic status of their community
5. Master Gardeners will become certified.
6. West Virginia volunteers will increase the number of hours they contribute.
7. WVU-ES county offices will incorporate volunteer position descriptions into procedures.
8. WVU-ES county offices will use best money practices.
9. Volunteers will become middle managers in county programs, events, and activities.
10. Volunteer policies and procedures will be improved.
11. Camps will be certified by the American Camping Association.
12. Business retention and expansion plans will be completed.
13. Participants will become certified in leadership development.
14. Organizations will ask Extension professionals to train in leadership skills and/or to manage volunteers.
15. Participants will reduce injuries, illness and fatalities in the workplace, leisure activities, and home.
16. Employers will comply with OSHA specified limits for exposure of workers to hazardous substances and conditions.

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
2012	18.0	0.0	0.0	0.0
2013	18.0	0.0	0.0	0.0
2014	18.0	0.0	0.0	0.0
2015	18.0	0.0	0.0	0.0
2016	18.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

In 2013 we plan to make 42,000 direct contacts with adults in initiatives under the community and workforce development umbrella. We also plan to make 24,541 direct contacts with youth. Responsibility for developing and fostering programs to meet these goals and objectives will be undertaken primarily by our Community Resources and Economic Unit and will include the following initiatives:

- Business Retention and Expansion
- Community Data Analysis
- Community Design Team
- Community Development East
- Community Visioning/Planning/Design
- Downtown Revitalization
- Emergency Planning & Preparation
- Fairs and Festivals
- Feasibility and Economic Impact Assessment Research
- First Impressions
- GIS
- Independent Retail Analysis
- Power of Ten
- Rural Tourism
- Strategic Planning for Development
- 4-H Leadership Development
- CEOS
- Extension Professional Development
- Master Gardner

- Organization Visioning
- Everyone Ready
- Volunteer Management
- Five Keys to Effective Program Management
- Advanced Fire Officer Training
- Aircraft Crash Rescue Firefighting
- WV State Fire Institute
- Labor Force Education
- Institute for Labor Studies and Research
- Safety and Health Extension (OHS)
- Asbestos and contractual projects for construction, general industry and the oil and gas industries
- ServSafe
- Child Care Provider Education

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"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations 	<ul style="list-style-type: none"> • Newsletters • TV Media Programs • Web sites other than eXtension

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)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
 - Number of patents submitted
 - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational activities
 - Number of educational materials created or updated
 - Number of educational materials distributed
 - Number of professional presentations
 - Number of outside organizations collaborating within this program area
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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 a behavior or use a new skill
4	Number of participants who train others
5	Number of people certified or licensed to practice in the field
6	Number of groups or organizations that change their procedures and/or policies
7	Number of new groups or organizations that are established or enhanced
8	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
9	Number of economic improvements
10	Number of organizations that ask Extension professionals to train in leadership skills
11	Number of employers who comply with OSHA specified limits for exposure of workers to hazardous substances and conditions.

Outcome # 1

1. Outcome Target

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

2. Outcome Type : Change in Knowledge Outcome Measure

2012:25150 2013:25300 2014:25450 2015:25600 2016:25750

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

2012:7575 2013:7650 2014:7725 2015:7800 2016:7875

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 a behavior or use a new skill

2. Outcome Type : Change in Action Outcome Measure

2012:1515 2013:1530 2014:1545 2015:1560 2016:1575

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 train others

2. Outcome Type : Change in Action Outcome Measure

2012:26 2013:27 2014:28 2015:29 2016:30

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 # 5

1. Outcome Target

Number of people certified or licensed to practice in the field

2. Outcome Type : Change in Action Outcome Measure

2012:101

2013:102

2014:103

2015:104

2016:105

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 groups or organizations that change their procedures and/or policies

2. Outcome Type : Change in Condition Outcome Measure

2012:10 2013:11 2014:11 2015:12 2016:13

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

Number of new groups or organizations that are established or enhanced

2. Outcome Type : Change in Condition Outcome Measure

2012:4 2013:5 2014:5 2015:5 2016:6

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

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:1 2014:1 2015:1 2016:1

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 # 9

1. Outcome Target

Number of economic improvements

2. Outcome Type : Change in Condition Outcome Measure

2012:4 2013:4 2014:5 2015:5 2016:6

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 organizations that ask Extension professionals to train in leadership skills

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:1 2014:2 2015:2 2016:3

3. Associated Knowledge Area(s)

- 608 - Community Resource Planning and Development
- 723 - Hazards to Human Health and Safety
- 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 employers who comply with OSHA specified limits for exposure of workers to hazardous substances and conditions.

2. Outcome Type : Change in Condition Outcome Measure

2012:5 2013:5 2014:6 2015:6 2016:7

3. Associated Knowledge Area(s)

- 723 - Hazards to Human Health and Safety
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities

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 - Planned Evaluation Studies

Description of Planned Evaluation Studies

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

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Global Food Security and Hunger

2. Brief summary about Planned Program

Goals

In 2013, the faculty and staff who work within the global food security and hunger planned program will strive to meet the following three goals.

1. Increase food supply and quality by improving and promoting animal health, marketing, use of pesticides, use of risk mitigation techniques, and control of predation.

Participants will gain knowledge and skill in subject matter related to:

- Livestock improvement
- Fruit and vegetable production
- Aquaculture
- Pest management
- Horticulture

Participants will change behavior or use:

- Artificial insemination, embryo transfer, pregnancy testing, and birthing techniques
- Comprehensive herd/flock health programs
- Integrated internal parasite programs
- BMP for commercial production on farms
- Conservation tillage practices
- Construction design for high and low tunnels
- Proper management and documentation of weeds, insects, diseases and chemical use
- IPM for high tunnel vegetables and small fruit crop production

Collaborations will be developed to improved access to a safe and affordable food supply.

Number of acres under improved management to reduce pesticide use will increase.

Number of vegetables and fruits at farmers' markets in West Virginia will increase.

Number of newly certified Master Gardeners will increase.

2. Expand marketing opportunities for value added products for West Virginia producers and develop food systems that support local consumers and local business creation and expansion.

Participants will gain knowledge and skill of:

- Marketing opportunities

- Factors affecting price of product
- Effect of genetics on adding value
- Age and source verification
- Selection tools to improve feeder cattle quality
- Regulations governing value-added production
- Diversified crop production
- Predation management techniques
- Methods of managing risk
- Proper record keeping skills
- Season extension techniques
- Cost of production analysis
- Estate planning and business generational transition.

Number of farm businesses in WV will increase.

Number of businesses in WV selling directly to institutions will increase.

Number of participants involved in a cooperative will increase.

Dollar amounts generated as a result of implementing season extension techniques, electronic marketing, predation management, and cooperatives will increase.

3. Enhance the agricultural knowledge of youth and adults so that they make informed decisions related to the production of food and fiber and build volunteer capacity related to agriculture within communities.

Participants will gain or increase their knowledge of:

- Agriculture and natural resources subject matter
- Agriculture related careers
- Ethical practices in agriculture
- Growing, preparing, selecting nutritious foods
- The importance of agriculture to one's life
- Participants will aspire to agriculture and natural resources careers
- School-based programs integrating food production and nutrition training will increase.

What will be done

In 2013 we plan to make 47,000 direct contacts with adults in initiatives under the global food security and hunger umbrella. We also plan to make 31,882 direct contacts with youth. Responsibility for developing and fostering programs to meet the goals and objectives will be undertaken primarily by our Agriculture and Natural Resource Unit and will include these initiatives:

- 4-H youth agriculture
- Agriculture in the classroom
- Summer Agriculture Institute
- Aquaculture
- Feeder Cattle Marketing
- Horticulture (Master Gardner)

- Insect and Disease Monitoring
- Livestock Improvement
- Pesticide Re-certification
- Small Ruminants
- Vegetable and Fruit Production

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
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%			
	Total	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. 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
- Integrated Research and 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

Goals

In 2013, the faculty and staff who work within the global food security and hunger planned program will strive to meet the following three goals.

1. Increase food supply and quality by improving and promoting animal health, marketing, use of pesticides, use of risk mitigation techniques, and control of predation.

Participants will gain knowledge and skill in subject matter related to:

- Livestock improvement
- Fruit and vegetable production
- Aquaculture
- Pest management
- Horticulture

Participants will change behavior or use:

- Artificial insemination, embryo transfer, pregnancy testing, and birthing techniques
- Comprehensive herd/flock health programs
- Integrated internal parasite programs
- BMP for commercial production on farms
- Conservation tillage practices
- Construction design for high and low tunnels
- Proper management and documentation of weeds, insects, diseases and chemical use
- IPM for high tunnel vegetables and small fruit crop production.

Collaborations will be developed to improved access to a safe and affordable food supply.

Number of acres under improved management to reduce pesticide use will increase.

Number of vegetables and fruits at farmers' markets in West Virginia will increase.

Number of newly certified Master Gardeners will increase.

2. Expand marketing opportunities for value added products for West Virginia producers and develop food systems that support local consumers and local business creation and expansion.

Participants will gain knowledge and skill of:

- Marketing opportunities
- Factors affecting price of product
- Effect of genetics on adding value
- Age and source verification
- Selection tools to improve feeder cattle quality
- Regulations governing value-added production
- Diversified crop production
- Predation management techniques
- Methods of managing risk
- Proper record keeping skills
- Season extension techniques
- Cost of production analysis
- Estate planning and business generational transition.

Number of farm businesses in WV will increase.

Number of businesses in WV selling directly to institutions will increase.

Number of participants involved in a cooperative will increase.

Dollar amounts generated as a result of implementing season extension techniques, electronic marketing, predation management, and cooperatives will increase.

3. Enhance the agricultural knowledge of youth and adults so that they make informed decisions related to the production of food and fiber and build volunteer capacity related to agriculture within communities.

Participants will gain or increase their knowledge of:

- Agriculture and natural resources subject matter
- Agriculture related careers
- Ethical practices in agriculture
- Growing, preparing, selecting nutritious foods
- The importance of agriculture to one's life
- Participants will aspire to agriculture and natural resources careers
- School-based programs integrating food production and nutrition training will increase.

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
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
2016	31.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

What will be done

In 2013 we plan to make 47,000 direct contacts with adults in initiatives under the global food security and hunger umbrella. We also plan to make 31,882 direct contacts with youth. Responsibility for developing and fostering programs to meet the goals and objectives will be undertaken primarily by our Agriculture and Natural Resource Unit and will include these initiatives:

- 4-H youth agriculture
- Agriculture in the classroom
- Summer Agriculture Institute
- Aquaculture
- Feeder Cattle Marketing
- Horticulture (Master Gardner)
- Insect and Disease Monitoring
- Livestock Improvement
- Pesticide Re-certification
- Small Ruminants

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"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations • Other 1 (fact sheets, posters) • Other 2 (audits) 	<ul style="list-style-type: none"> • Newsletters • Web sites other than eXtension • Other 1 (trade show displays, posters)

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, homeowners, shepherds, pesticide applicators, certified nutrient managers, youth livestock exhibitors, volunteers, Extension agents, and Extension specialists.

V(G). Planned Program (Outputs)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
 - Number of patents submitted
 - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational activities
 - Number of educational materials created or updated
 - Number of educational materials distributed
 - Number of outside organizations collaborating within this program area
 - Number of professional presentations
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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 a behavior or use a new skill
4	Number of people certified or licensed to practice in the field
5	Number of groups or organizations that change their procedures and/or policies
6	Number of new groups or organizations that are established or enhanced
7	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
8	Number of economic improvements
9	Number of environmental improvements
10	Dollar amounts generated as a result of implementing new techniques or procedures

Outcome # 1

1. Outcome Target

Number of participants who increase their knowledge

2. Outcome Type : Change in Knowledge Outcome Measure

2012:50500 2013:51000 2014:51500 2015:52000 2016:52500

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 improve or increase skills

2. Outcome Type : Change in Knowledge Outcome Measure

2012:10000 2013:10100 2014:10200 2015:10300 2016:10400

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 change a behavior or use a new skill

2. Outcome Type : Change in Action Outcome Measure

2012:2020

2013:2040

2014:2060

2015:2080

2016:2100

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 people certified or licensed to practice in the field

2. Outcome Type : Change in Action Outcome Measure

2012:101 2013:102 2014:103 2015:104 2016:105

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 groups or organizations that change their procedures and/or policies

2. Outcome Type : Change in Condition Outcome Measure

2012:12 2013:13 2014:14 2015:15 2016:16

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

Number of new groups or organizations that are established or enhanced

2. Outcome Type : Change in Knowledge Outcome Measure

2012:2 2013:3 2014:3 2015:3 2016:4

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 # 7

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

2012:1 2013:1 2014:1 2015:1 2016:1

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 # 8

1. Outcome Target

Number of economic improvements

2. Outcome Type : Change in Knowledge Outcome Measure

2012:4	2013:5	2014:5	2015:5	2016:6
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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 # 9

1. Outcome Target

Number of environmental improvements

2. Outcome Type : Change in Knowledge Outcome Measure

2012:2 2013:2 2014:3 2015:3 2016:4

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

Dollar amounts generated as a result of implementing new techniques or procedures

2. Outcome Type : Change in Condition Outcome Measure

2012:100000 2013:110000 2014:120000 2015:130000 2016:140000

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 - Planned Evaluation Studies

Description of Planned Evaluation Studies

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.

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Strengthening Families

2. Brief summary about Planned Program

Goals

In 2013, the strengthening family planned program at West Virginia University Extension will work towards improving the financial wellbeing of WV families, building strong primary adult and child/parent relationships in WV families and training child care providers in positive youth development. Goals and objectives include:

1. Participants will gain knowledge and skill related to financial decision-making including:

- Family budgeting
- Benefits of saving
- Getting out of debt
- Planning for retirement
- Parenting
- Personal communication
- Stress reduction
- Coping during divorce or separation
- Importance of family mealtimes
- Child development
- Family nutrition
- Issues related to parenting grandchildren/kin
- Issues related to the care of older adults and disabled
- Issues related to child sexual abuse.

2. Participants will change behavior or utilize skills such as:

- Financial decision-making
- Budgeting
- Debt reduction
- Retirement planning
- Building healthy relationships
- Caregiving (older adults or disabled) skills
- Parenting skills
- Family mealtime activities
- Adult communication
- Stress reduction
- Relationship building
- Mealtime activities.

3. Number of participants who train others in financial education curricula will increase.

4. Number of participants who become certified to teach financial education programs will increase.

5. Number of collaborations to facilitate family finance education in WV will increase.

6. Number of participants who receive certification in childcare provider training program will increase.

7. Number of participants who train others in relationship, financial, and/or parenting education curricula will increase.

8. Number of new collaborative relationships with community groups to supported family-strengthening programs will increase.

9. The dollar amount that coalitions raise as in-kind contributions to sustain programs will increase.

10. WVU Extension will become recognized as a leader in relationship, financial, and parenting education and outreach

What will be done

In 2013 we plan to make 94,000 direct contacts with adults in initiatives under the strengthening families umbrella. We also plan to make 10,000 direct contacts with youth. Responsibility for developing and fostering programs to meet these goals and objectives will be undertaken primarily by our Family and Health Unit and will include these initiatives:

- Earned Income Tax Credit
- NetWorth Initiative
- Senior Adult Financial Programming
- Financial Freedom
- Healthy Families/Healthy Children
- Divorce Education
- Parenting Education
- Strong Families Eat Together
- Relatives as Parents Program
- Child Care Provider 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
801	Individual and Family Resource Management	50%			
802	Human Development and Family Well-Being	50%			
	Total	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
- In-State Research
- Multistate Research
- Multistate Extension

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

1. Assumptions made for the Program

1. Strengthening families initiatives are best delivered through local collaboratives.
2. Parenting information is best delivered through partnerships with local organizations including schools and faith-based organizations because these insitutions 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.
3. 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.
4. Many older adults in West Virgina 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 particulary good at working within collaborations.
5. 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

Goals

In 2013, the strengthening family planned program at West Virginia University Extension will work towards improving the financial wellbeing of WV families, building strong primary adult and child/parent relationships in WV families and training child care providers in positive youth development. Goals and objectives include:

1. Participants will gain knowledge and skill related to financial decision-making including:
 - Family budgeting
 - Benefits of saving
 - Getting out of debt
 - Planning for retirement
 - Parenting
 - Personal communication
 - Stress reduction
 - Coping during divorce or separation
 - Importance of family mealtimes
 - Child development
 - Family nutrition
 - Issues related to parenting grandchildren/kin
 - Issues related to the care of older adults and disabled
 - Issues related to child sexual abuse.

2. Participants will change behavior or utilize skills such as:

- Financial decision-making
- Budgeting
- Debt reduction
- Retirement planning
- Building healthy relationships
- Caregiving (older adults or disabled) skills
- Parenting skills
- Family mealtime activities
- Adult communication
- Stress reduction
- Relationship building
- Mealtime activities.

3. Number of participants who train others in financial education curricula will increase.

4. Number of participants who become certified to teach financial education programs will increase.

5. Number of collaborations to facilitate family finance education in WV will increase.

6. Number of participants who receive certification in childcare provider training program will increase.

7. Number of participants who train others in relationship, financial, and/or parenting education curricula will increase.

8. Number of new collaborative relationships with community groups to supported family-strengthening programs will increase.

9. The dollar amount that coalitions raise as in-kind contributions to sustain programs will increase.

10. WVU Extension will become recognized as a leader in relationship, financial, and parenting education and outreach

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
2012	24.0	0.0	0.0	0.0
2013	24.0	0.0	0.0	0.0
2014	24.0	0.0	0.0	0.0
2015	24.0	0.0	0.0	0.0
2016	24.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

What will be done

In 2013 we plan to make 99,000 direct contacts with adults in initiatives under the strengthening families umbrella. We also plan to make 10,000 direct contacts with youth. Responsibility for developing and fostering programs to meet these goals and objectives will be undertaken primarily by our Family and Health Unit and will include these initiatives:

- Earned Income Tax Credit
- NetWorth Initiative
- Senior Adult Financial Programming
- Financial Freedom
- Healthy Families/Healthy Children
- Divorce Education
- Parenting Education
- Strong Families Eat Together
- Relatives as Parents Program
- Child Care Provider Education

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"> • Education Class • Workshop • Group Discussion • Demonstrations • Other 1 (Collaborations with schools) • Other 2 (collaborations w/day care center) 	<ul style="list-style-type: none"> • Billboards • Newsletters • Web sites other than eXtension

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)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
 - Number of patents submitted
 - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational activities
 - Number of educational materials created or updated.
 - Number of educational materials distributed.
 - Number of outside organizations collaborating within this program area
 - Number of professional presentations
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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 change a behavior or use a new skill
4	Number of participants who train others
5	Amount of money raised by participants to support the program
6	Number of people certified or license to practice in the field
7	Number of groups or organizations that change their procedures and/or policies
8	Number of new groups or organizations that are established or enhanced
9	Number of physical or social effects, such as disease, pollution, or crime that are reduced or eliminated
10	Number of economic improvements
11	Number of social improvements

Outcome # 1

1. Outcome Target

Number of participants who increased their knowledge.

2. Outcome Type : Change in Knowledge Outcome Measure

2012:25000 2013:25250 2014:25500 2015:25750 2016:26000

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

2012:12250 2013:12500 2014:12750 2015:13000 2016:13250

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 change a behavior or use a new skill

2. Outcome Type : Change in Action Outcome Measure

2012:1000 2013:1100 2014:1200 2015:1300 2016:1400

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 train others

2. Outcome Type : Change in Action Outcome Measure

2012:101 2013:102 2014:103 2015:104 2016:105

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

Amount of money raised by participants to support the program

2. Outcome Type : Change in Action Outcome Measure

2012:5050 2013:5100 2014:5150 2015:5200 2016:5250

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

Number of people certified or license to practice in the field

2. Outcome Type : Change in Action Outcome Measure

2012:26 2013:27 2014:28 2015:29 2016:30

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 groups or organizations that change their procedures and/or policies

2. Outcome Type : Change in Condition Outcome Measure

2012:3 2013:4 2014:5 2015:6 2016:6

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 # 8

1. Outcome Target

Number of new groups or organizations that are established or enhanced

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:1 2014:2 2015:2 2016:3

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 # 9

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

2012:1 2013:1 2014:1 2015:1 2016:1

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 # 10

1. Outcome Target

Number of economic improvements

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:2 2014:2 2015:3 2016:3

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 # 11

1. Outcome Target

Number of social improvements

2. Outcome Type : Change in Knowledge Outcome Measure

2012:1 2013:2 2014:2 2015:3 2016:3

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

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 - Planned Evaluation Studies

Description of Planned Evaluation Studies

Family programs will be evaluated to show impact. Programs will also undergo process evaluations.

Focus group studies that compare groups based on different variables. A study of coalition growth and sustainability is planned.

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Climate Change

2. Brief summary about Planned Program

Goals

In 2013, the climate change planned program at West Virginia University Extension will work towards improving efforts in bio-energy and related value-added products and natural resource protection and forest stewardship.

Goals of this planned program will include:

1. To help producers plan for and make decisions to adapt to changing environments and take advantage of economic opportunities offered by climate changed mitigation technologies.
2. To design optimum forestry and crops for bio-energy production and to produce value-added bio-based industrial products
3. To increase the capacity of local communities and landowners in watershed management, nutrient management and sustainability, environmental management and forest stewardship.

Objectives include

1. Producers and other participants will gain knowledge and skill in:
 - Carbon credit systems
 - Markets and agricultural solutions to capture carbon and mitigate climate change
 - Green house gas mitigation from animal manure storage and digestion systems
 - Benefits of reduction of food and woody biomass added to the land fill waste stream
 - Soil and forest carbon sequestration
 - How to add bio, wind, small hydro and solar systems to homes or farm operations to reduce fossil fuel use
 - Production of energy crops, processing and utilization on farm
 - Composting and recycling
 - Water conservation
 - Increasing landfill life
 - Safe logging practices
 - Watershed conditions and solutions
 - P cycling in soils, watersheds and global supplies.
 - BMPs that reduce losses of N, P, and sediment
 - BMPs focused on animal waste control
 - Local Soil Conservation Districts
 - CAFO regulations
 - Calibration of animal waste application equipment
 - Beef winter feeding alternatives and management
 - Managing pasture growth, use, and quality
 - Managing animal stocking rate on their farm

- Producing high quality hay
- Proper fertilization of hay fields and pasture
 2. Watershed collaborations and organizations will be formed.
 3. The dollar amount of economic improvement will increase through use of appropriate BMPs and expanded forest and non-timber product production.

4. There will be evidence of environmental improvement through the use of BMPs, improved woodlot conditions, reduced water quality impairment, and no-till or reduced till production.

5. Public understanding of climate control and natural resource protection issues will improve because of applied research projects in: watershed management, nutrient management and sustainability, and environmental management

What will be done

In 2013 we plan to make 5000 direct contacts with adults in initiatives under climate control planned program. We also plan to make direct contacts with 6000 youth. Responsibility for developing and fostering programs to meet these goals and objectives will be undertaken primarily by our Family and Health Unit and will include these initiatives:

- Biomass production
- Energy audits
- Energy crop production
- Hydro systems
- Solar systems
- Wind energy

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
123	Management and Sustainability of Forest Resources	30%			
131	Alternative Uses of Land	35%			
136	Conservation of Biological Diversity	35%			
	Total	100%			

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

1. Situation and priorities

At the federal level, The Energy Independence and Security Act of 2007 mandates that a total of 36 billion gallons of renewable biofuels be produced by the year 2022. Of those 36 billion gallons mandated in 2022, 16 billion gallons are slated to be produced from cellulosic feedstocks like Switchgrass or woody material. Although West Virginia has very little uncommitted agricultural land for the production of conventional corn based ethanol, the state could be a substantial supplier of cellulosic feedstock. Traditionally ethanol has been produced from the starch contained in grain crops such as corn, limiting the types of crops that can be used for ethanol production. Cellulose is the main component of plant cell walls and is one of the most abundant organic compounds on earth. As the process of breaking down cellulose into fermentable sugars becomes more readily available, this will greatly expand the different types of materials that can be used for ethanol production, including forestry and agricultural wastes and "energy crops" such as fast growing grasses and trees. West Virginia is well suited to supply forestry wastes for ethanol production and to grow certain energy crops such as switchgrass on marginally productive lands that are not otherwise being utilized for food production. The state also has tens of thousands of acres of reclaimed surface mine sites that have large uninterrupted blocks of lands and extensive road networks making them well suited for agricultural production of energy crops. West Virginia's temperate climate and 45-55 inches of annual rain are well suited for Switchgrass production. Switchgrass also has only moderate fertility needs making it well suited to a relatively broad range of growing conditions. Overcoming low fertility on mine sites is the primary factor in ensuring equivalent yields between undisturbed land and mined land. Yields can be expected to be approximately five tons per acre annually in a well established stand on moderately fertile soil.

2. Scope of the Program

- In-State Extension
- In-State Research

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

1. Assumptions made for the Program

1. 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.

2. Hardwood trees will survive and grow in weathered brown sandstone and in unweathered gray sandstone.
3. Forests play a crucial role in water quality issues.
4. WV forests bring about 4 billion in value to the state.
5. West Virginia youth need to learn the issues related to climate control and be involved in its solutions.

2. Ultimate goal(s) of this Program

Goals

In 2013, the climate change planned program at West Virginia University Extension will work towards improving efforts in bio-energy and related value-added products and natural resource protection and forest stewardship.

Goals of this planned program will include:

1. To help producers plan for and make decisions to adapt to changing environments and take advantage of economic opportunities offered by climate changed mitigation technologies.
2. To design optimum forestry and crops for bio-energy production and to produce value-added bio-based industrial products.
3. To increase the capacity of local communities and landowners in watershed management, nutrient management and sustainability, environmental management and forest stewardship.

Objectives include

1. Producers and other participants will gain knowledge and skill in:
 - Carbon credit systems
 - Markets and agricultural solutions to capture carbon and mitigate climate change
 - Green house gas mitigation from animal manure storage and digestion systems
 - Benefits of reduction of food and woody biomass added to the land fill waste stream
 - Soil and forest carbon sequestration
 - How to add bio, wind, small hydro and solar systems to homes or farm operations to reduce fossil fuel use
 - Production of energy crops, processing and utilization on farm
 - Composting and recycling
 - Water conservation
 - Increasing landfill life
 - Safe logging practices
 - Watershed conditions and solutions
 - P cycling in soils, watersheds and global supplies.
 - BMPs that reduce losses of N, P, and sediment
 - BMPs focused on animal waste control
 - Local Soil Conservation Districts
 - CAFO regulations

- Calibration of animal waste application equipment
- Beef winter feeding alternatives and management
- Managing pasture growth, use, and quality
- Managing animal stocking rate on their farm
- Producing high quality hay
- Proper fertilization of hay fields and pasture

2. Watershed collaborations and organizations will be formed.

3. The dollar amount of economic improvement will increase through use of appropriate BMPs and expanded forest and non-timber product production.

4. There will be evidence of environmental improvement through the use of BMPs, improved woodlot conditions, reduced water quality impairment, and no-till or reduced till production.

5. Public understanding of climate control and natural resource protection issues will improve because of applied research projects in: watershed management, nutrient management and sustainability, and environmental management

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
2012	8.0	0.0	0.0	0.0
2013	8.0	0.0	0.0	0.0
2014	8.0	0.0	0.0	0.0
2015	8.0	0.0	0.0	0.0
2016	8.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

What will be done

In 2013 we plan to make 5000 direct contacts with adults in initiatives under climate control planned program. We also plan to make direct contacts with 6000 youth. Responsibility for developing and fostering programs to meet these goals and objectives will be undertaken primarily by our Family and Health Unit and will include these initiatives:

- Biomass production
- Energy audits
- Energy crop production

- Hydro systems
- Solar systems
- Wind energy

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"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations 	<ul style="list-style-type: none"> • Newsletters • Web sites other than eXtension

3. Description of targeted audience

Target audiences include private forestland owners, forestry professionals, researchers, general public.

V(G). Planned Program (Outputs)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
 - Number of patents submitted
 - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational activities
 - Number of educational materials created or updated
 - Number of professional presentations
 - Number of outside organizations collaborating with this program area
 - Number of educational materials distributed
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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 a behavior or use a new skill
4	Number of groups or organizations that change their procedures and/or policies
5	Number of new groups or organizations that are established or enhanced
6	Number of physical or social effects, such as disease, pollution, or crime, etc., reduced or eliminated
7	Number of economic improvements
8	Number of environmental improvements

Outcome # 1

1. Outcome Target

Number of participants who increase their knowledge

2. Outcome Type : Change in Knowledge Outcome Measure

2012:2515 2013:2530 2014:2545 2015:2560 2016:2575

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity

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

2012:757 2013:764 2014:771 2015:778 2016:785

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 3

1. Outcome Target

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

2. Outcome Type : Change in Action Outcome Measure

2012:250 2013:260 2014:270 2015:280 2016:290

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 4

1. Outcome Target

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

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:2 2014:2 2015:2 2016:3

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 5

1. Outcome Target

Number of new groups or organizations that are established or enhanced

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:2 2014:2 2015:2 2016:3

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 6

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

2012:1 2013:1 2014:1 2015:1 2016:1

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 7

1. Outcome Target

Number of economic improvements

2. Outcome Type : Change in Condition Outcome Measure

2012:1 2013:2 2014:2 2015:2 2016:2

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 8

1. Outcome Target

Number of environmental improvements

2. Outcome Type : Change in Knowledge Outcome Measure

2012:1 2013:2 2014:2 2015:2 2016:3

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity

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 - Planned Evaluation Studies

Description of Planned Evaluation Studies

To examine climate control issues on mine lands, research will continue on switchgrass that was established on three different mines across the state of West Virginia. Three varieties of switchgrass were chosen and each variety was planted in 0.4 ha plots at each site. The objective of this study was to examine switchgrass establishment success and productivity, and to measure changes in soil chemical and physical properties.

Evaluation of knowledge and skill gained within the climate control area will utilize paper and online surveys of knowledge and skill gains as well as benefits of educational programs. Data will also be gathered on

V(A). Planned Program (Summary)

Program # 7

1. Name of the Planned Program

Food Safety

2. Brief summary about Planned Program

Goals

In 2013, the food safety planned program at West Virginia University Extension will work towards reducing the incidence of food-borne illness by eliminating causes of microbial resistance to contaminants, educating consumer and food safety professionals, and developing safe food processing technologies. The following objectives have been designed to meet those goals:

1. Number of food preparation participants who are motivated to practice safe food preparation methods in the home will increase.
2. Number of food preparation participants who change behavior or utilize best practices for preparing foods that are marketed to the public (i.e. markets, child career centers, and restaurants) foods that are prepared at home will increase.
3. Number of food preparation participants who complete the ServSafe certification program will increase.
4. Number of collaborations developed to improve access to a safe and affordable food supply will increase.
5. Understanding about food safety will increase through the development and implementation of applied research projects.

What will be done

In 2013 we plan to make direct contacts with 3000 adults in initiatives under the food safety umbrella. We also plan to make direct contacts with 1500 youths. Responsibility for developing and fostering programs to meet the goals and objectives will be undertaken primarily by our Agriculture and Natural Resource Unit and our Family and Health Unit, and will include these initiatives:

- Beef Quality Assurance
- Acidified Foods School
- Food Preservation Training
- Animals and Hand-washing
- Germ City

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%			
	Total	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. 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
- Multistate 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

Goals

In 2013, the food safety planned program at West Virginia University Extension will work towards reducing the incidence of food-borne illness by eliminating causes of microbial resistance to contaminants, educating consumer and food safety professionals, and developing safe food processing technologies. The following objectives have been designed to meet those goals:

1. Number of food preparation participants who are motivated to practice safe food preparation methods in the home will increase.
2. Number of food preparation participants who change behavior or utilize best practices for preparing foods that are marketed to the public (i.e. markets, child career centers, and restaurants) foods that are prepared at home will increase.
3. Number of food preparation participants who complete the ServSafe certification program will increase.
4. Number of collaborations developed to improve access to a safe and affordable food supply will increase.
5. Understanding about food safety will increase through the development and implementation of applied research projects.

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
2012	5.0	0.0	0.0	0.0
2013	5.0	0.0	0.0	0.0
2014	5.0	0.0	0.0	0.0
2015	5.0	0.0	0.0	0.0
2016	5.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

In 2013 we plan to make direct contacts with 3000 adults in initiatives under the food safety umbrella. We also plan to make direct contacts with 1500 youths. Responsibility for developing and fostering programs to meet the goals and objectives will be undertaken primarily by our Agriculture and Natural Resource Unit and our Family and Health Unit, and will include these initiatives:

- Beef Quality Assurance
- Acidified Foods School
- Food Preservation Training
- Animals and Hand-washing
- Germ City

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 class room training program and (2) a Level II 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.

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.

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"> ● Education Class ● Workshop ● One-on-One Intervention ● Demonstrations 	<ul style="list-style-type: none"> ● Newsletters ● Web sites other than eXtension ● Other 1 (email) ● Other 2 (social media)

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)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
- Number of patents submitted
- Number of peer reviewed publications

Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational activities
 - Number of educational materials created or updated
 - Number of educational materials distributed
 - Number of professional presentations
 - Number of outside organizations collaborating within this program area
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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 are motivated to change their behavior
4	Number of participants who change a behavior or use a new skill
5	Number of people certified or license to practice in the field
6	Number of groups or organizations that change their procedures and/or policies
7	Number of new groups or organizations that are established or enhanced
8	Number of physical or social effects, such as disease, pollution, or crime, that are reduced or eliminated
9	Number of economic improvements
10	Number of environmental improvements

Outcome # 1

1. Outcome Target

Number of participants who increase their knowledge

2. Outcome Type : Change in Knowledge Outcome Measure

2012:1010 2013:1020 2014:1030 2015:1040 2016:1050

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

2012:808 2013:816 2014:824 2015:832 2016:840

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 are motivated to change their behavior

2. Outcome Type : Change in Knowledge Outcome Measure

2012:252 2013:254 2014:256 2015:258 2016:260

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 change a behavior or use a new skill

2. Outcome Type : Change in Knowledge Outcome Measure

2012:101 2013:102 2014:103 2015:104 2016:105

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 people certified or license to practice in the field

2. Outcome Type : Change in Knowledge Outcome Measure

2012:26 2013:27 2014:28 2015:29 2016:30

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 groups or organizations that change their procedures and/or policies

2. Outcome Type : Change in Knowledge Outcome Measure

2012:11 2013:12 2014:13 2015:14 2016:15

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

Number of new groups or organizations that are established or enhanced

2. Outcome Type : Change in Knowledge Outcome Measure

2012:1 2013:1 2014:1 2015:1 2016:2

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

2. Outcome Type : Change in Knowledge Outcome Measure

2012:1 2013:1 2014:1 2015:1 2016:1

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 # 9

1. Outcome Target

Number of economic improvements

2. Outcome Type : Change in Knowledge Outcome Measure

2012:2 2013:2 2014:2 2015:2 2016:2

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 environmental improvements

2. Outcome Type : Change in Knowledge Outcome Measure

2012:1 2013:1 2014:1 2015:1 2016:1

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

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

The National BQA program and the state programs have recently been scrutinized by some of the membership of the National Cattlemen's Association. Some have questioned if future funding should be continued for the program. Discussions have been held at the annual state contact meetings about how to maintain funding and how to secure additional funding.

New quality issues will have to be continuously addressed as the five year beef audits have revealed. The challenge is to develop training materials that keep the beef producer informed and provide them with the tools to make production changes to insure a safe, quality beef product. The recent push has been to develop a National BQA training program in hopes of providing all producer an educational opportunity.

Communication to all producers is still going to be a major obstacle. Bidding for the part-time producers' time will not get easier in the future. Most producer are demanding that trainings be held locally and are showing they are less willing to attend meetings requiring lengthy travel.

Only a small percentage of producers are likely to attend meetings or become part of a membership effort. We are often caught "preaching to the choir" for many educational efforts. A great amount of emphasis has been dedicated to developing on-line curriculum and training

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Workshop evaluations using after, retrospective, and pre-post methodologies

Testing of products

Observations of trainees performing procedures correctly

V(A). Planned Program (Summary)

Program # 8

1. Name of the Planned Program

Sustainable Energy

2. Brief summary about Planned Program

Goals

In 2013, the sustainable energy planned program at West Virginia University Extension will work towards improving woodlot conditions and expanding forest and non-timber product production. It will also increase knowledge and skill base for safe logging practices and promotion of a safe, efficient and profitable workplace.

Objectives of the sustainable energy planned program include:

1. Participants will gain knowledge in:
 - Managing woodlands.
 - Non-timber forest products
 - Familiarization with agencies and individuals that can assist in the complexities of timber transactions
 - Property and timber taxation issues
2. Participants will gain skills in treating invasive plant species common to WV woodlands.
3. Public will increase understanding of forest and non-timber production through applied research projects.

What will be done

In 2013 we plan to make direct contacts with 2000 adults and youth in initiatives under the sustainable planned program. We also plan to make direct contacts with 500 youths. Responsibility for developing and fostering programs to meet the goals and objectives will be undertaken primarily by our Agriculture and Natural Resource Unit, and will include these initiatives:

- Forestry, logging and milling
- Forest Stewardship

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

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
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%			
	Total	100%			

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

1. Situation and priorities

Goals

In 2013, the sustainable energy planned program at West Virginia University Extension will work towards improving woodlot conditions and expanding forest and non-timber product production. It will also increase knowledge and skill base for safe logging practices and promotion of a safe, efficient and profitable workplace.

Objectives of the sustainable energy planned program include:

1. Participants will gaining knowledge in:

- Managing woodlands.
- Non-timber forest products
- Familiarization with agencies and individuals that can assist in the complexities of timber transactions
- Property and timber taxation issues

2. Participants will gain skills in treating invasive plant species common to WV woodlands.

3. Public will increased understanding of forest and non-timber production through applied research projects.

What will be done

In 2013 we plan to make direct contacts with 2000 adults in initiatives under the sustainable planned program. We also plan to make direct contacts with 500 youths. Responsibility for developing and fostering programs to meet the goals and objectives will be undertaken primarily by our Agriculture and Natural Resource Unit, and will include these initiatives:

- Forestry, logging and milling
- Forest Stewardship

2. Scope of the Program

- In-State Extension
- In-State Research

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

1. Assumptions made for the Program

1. 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.

2. The Forestry Team, a group of Extension professionals working as a unit to develop programming in West Virginia, can deliver educational programs to individuals and organizations to improve their knowledge of forests and natural resources through education, demonstration, and research.

2. Ultimate goal(s) of this Program

Goals

In 2013, the sustainable energy planned program at West Virginia University Extension will work towards improving woodlot conditions and expanding forest and non-timber product production. It will also increase knowledge and skill base for safe logging practices and promotion of a safe, efficient and profitable workplace.

Objectives of the sustainable energy planned program include:

1. Participants will gain knowledge in:
 - Managing woodlands.
 - Non-timber forest products
 - Familiarization with agencies and individuals that can assist in the complexities of timber transactions
 - Property and timber taxation issues.
 -
2. Participants will gain skills in treating invasive plant species common to WV woodlands.
3. Public will increased understanding of forest and non-timber production through applied research projects.

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
2012	5.0	0.0	0.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2013	5.0	0.0	0.0	0.0
2014	5.0	0.0	0.0	0.0
2015	5.0	0.0	0.0	0.0
2016	5.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

What will be done

In 2013 we plan to make direct contacts with 2000 adults in initiatives under the sustainable planned program. We also plan to make direct contacts with 500 youths. Responsibility for developing and fostering programs to meet the goals and objectives will be undertaken primarily by our Agriculture and Natural Resource Unit, and will include these initiatives:

- Forestry, logging and milling
- Forest Stewardship

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"> • Education Class • Workshop • One-on-One Intervention • Demonstrations • Other 1 (Research) 	<ul style="list-style-type: none"> • Newsletters • Web sites other than eXtension • Other 1 () • Other 2 ()

3. Description of targeted audience

Foresters, government officials, consumers of wood products, commercial enterprises dealing with wood products, Extension staff and faculty.

V(G). Planned Program (Outputs)

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
 - Direct Adult Contacts
 - Indirect Adult Contacts
 - Direct Youth Contacts
 - Indirect Youth Contact
 - Number of patents submitted
 - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(H). State Defined Outputs

1. Output Measure

- Number of educational materials created or updated
 - Number of educational materials distributed
 - Number of professional presentations
 - Number of outside organizations collaborating within this program area
 - Number of training activities
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

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
4	Number of participants who gain knowledge about sustainable energy
5	Number of participants who gain new skills related to sustainable energy.
6	Number of participants who change a behavior or use a new skill.

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

2012:2 2013:3 2014:4 2015:5 2016:6

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 economic improvements

2. Outcome Type : Change in Condition Outcome Measure

2012:2 2013:3 2014:4 2015:5 2016:6

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 # 3

1. Outcome Target

Number of environmental improvements

2. Outcome Type : Change in Condition Outcome Measure

2012:1 **2013:2** **2014:2** **2015:3** **2016:3**

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 # 4

1. Outcome Target

Number of participants who gain knowledge about sustainable energy

2. Outcome Type : Change in Knowledge Outcome Measure

2012:2000 **2013:2020** **2014:2040** **2015:2060** **2016:2080**

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 # 5

1. Outcome Target

Number of participants who gain new skills related to sustainable energy.

2. Outcome Type : Change in Knowledge Outcome Measure

2012:500 2013:505 2014:510 2015:515 2016:520

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 change a behavior or use a new skill.

2. Outcome Type : Change in Knowledge Outcome Measure

2012:250 2013:253 2014:256 2015:259 2016:262

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

Description

Weather changes. New technologies that need to be learned and taught. New government regulations.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Standard educational evaluations of participants in programs.