

V(A). Planned Program (Summary)

Program # 11

1. Name of the Planned Program

Volunteer, Family and Youth Development

Reporting on this Program

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
601	Economics of Agricultural Production and Farm Management	15%	15%	15%	15%
801	Individual and Family Resource Management	15%	15%	15%	15%
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	25%	25%	25%	25%
806	Youth Development	35%	35%	35%	35%
901	Program and Project Design, and Statistics	10%	10%	10%	10%
	Total	100%	100%	100%	100%

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2014	Extension		Research	
	1862	1890	1862	1890
Plan	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
Actual Paid	12.4	2.9	0.3	0.2
Actual Volunteer	0.0	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
257791	267200	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
301765	267200	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1185447	29114	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Extension programs will target: (1) Science, Technology, Engineering, and Math (STEM) for youth development, (2) Volunteer and Leadership Development, and (3) Farm, Small Business and Family Resource Management.

Science, Technology, Engineering, and Math (STEM) will be a key component of 4-H Youth Development programs. Incorporating a youth assets approach, 4-H programs will focus on life skills development, positive life choices, leadership development, citizenship/community involvement, and career exploration with emphasis on science, engineering and technology knowledge. Appropriate settings including clubs, camps, school enrichment and after school will use the latest technology to deliver the sustained opportunities. All programming will encompass the latest research on positive youth development and will incorporate the components of positive and sustained adult-youth relationships; life skills-building activities for youth; and opportunities for youth participation in and leadership of valued community activities.

Volunteer Leadership Development programs will be delivered across all program areas. With a core of 3000 volunteers in Cooperative Extension, this program will include core volunteer competencies for volunteer leadership development that will be implemented with 4-H adult and teen volunteers and camp counselors, master gardeners, master food educators; middle management volunteers (volunteers managing volunteers); and extension advisory committees. Core competencies as well as subject matter training and update training to maintain certifications will be provided. Delivery of educational program through volunteers will also occur across all program areas.

Farm, Small Business, and Family Resource management educational programs will be developed and delivered focusing on strategies for effective consumer decision making, financial planning and financial management practices, basic budgeting and credit management, and risk management including health insurance literacy. Additionally, business management strategies focused on business and marketing plans, new business development, business diversification, and improving employability and building human capital skills.

2. Brief description of the target audience

The target audience includes: Youth ages 5-19, 4-H members, 4-H volunteers, new 4-H volunteers, Master Gardeners, Master Food Educators, Community Leaders, at-risk youth and families, court appointed and incarcerated youth and adults, parents of children (from birth through school-age), youth agency professionals, key decision-makers, human service professionals, child care/after school

providers, family day home providers, social clubs, church groups, private and public school youth and teachers, after school 4-H clubs and school age child care programs, farm owners and farm families.

3. How was eXtension used?

In 2014 the eXtension Institutional Team comprised of faculty and staff from across all planned program areas continue to provide the leadership for this work. This past year the team has focused on the following:

- Developing a strategic plan for use of social media (created by eXtension Fellow)
- Implementing social media strategic plan- including two social media campaigns
- Additional training and implementation on Ask an Expert
- On-line course development
- Became a premier member of new eXtension structure

The social media strategy successfully propelled Delaware to win the national Hughes.net 4-H Grown contest this year. This campaign further advanced connections to our volunteer, family and youth development program area. Ask and Expert second highest use area is in this program area as well.

V(E). Planned Program (Outputs)

1. Standard output measures

2014	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	11204	9291	21054	4132

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

Patent Applications Submitted

Year: 2014
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2014	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Competitive Grants Awarded

Year	Actual
2014	4

Output #2

Output Measure

- Undergraduate Researchers

Year	Actual
2014	1

Output #3

Output Measure

- M.S. and Ph.D. Students

Year	Actual
2014	0

Output #4

Output Measure

- Post-doctoral Researchers

Year	Actual
2014	0

Output #5

Output Measure

- Refereed Journal Articles

Year	Actual
2014	0

Output #6

Output Measure

- Books and Book Chapters

Year	Actual
2014	0

Output #7

Output Measure

- Extension Bulletins and Fact Sheets

Year	Actual
2014	41

Output #8

Output Measure

- Webpage views/downloads

Year	Actual
2014	184767

Output #9

Output Measure

- Workshops and regional, national and international levels

Year	Actual
2014	1367

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	1. Science, Technology, Engineering, and Math: 1) Increased knowledge of STEM content areas resulting in increased critical thinking and scientific inquiry. 2) Increased numbers of youth pursuing education and careers in science and in contributing to society using science skills.
2	2. Volunteer Leadership Development: 1) Increased knowledge of leadership skills and apply of these skills volunteering and leadership within the community. 2) Augmentation of Cooperative Extension program and resources through volunteer leaders providing education in communities and groups.
3	3. Farm, Small Business, and Family Resource management: 1) Increased knowledge, increased awareness of skills to use, and adoption of best practices in financial management. 2) Increased knowledge, increased awareness and adoption of skills to use and evaluate and enhance business and marketing plans.

Outcome #1

1. Outcome Measures

1. Science, Technology, Engineering, and Math: 1) Increased knowledge of STEM content areas resulting in increased critical thinking and scientific inquiry. 2) Increased numbers of youth pursuing education and careers in science and in contributing to society using science skills.

2. Associated Institution Types

- 1862 Extension
- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2014	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

There is a need for afterschool and summer academic enrichment at the Middle School level in Newark, DE to provide year-round support to students of families with low-income and low educational attainment who are unable to access affordable, quality afterschool and summer programming in the community. School data indicates that middle school students are at a below target rating in adequate yearly progress with 58% low-income students. The School Profile data indicates low performance of lower socio-economic students as compared to overall students.

What has been done

Aligning with the goals of the School Improvement Plan, 4-H Afterschool programs work to increase academic achievement for all students in reading and math; help maintain a positive, safe school environment by increasing attendance and decreasing disciplinary infractions; and increase parental involvement. The 4-H Afterschool program provides academic support for homework help. Enrichment activities are linked to school core competencies using the 4-H curriculum in healthy living, STEM and Leadership, as well as parent engagement through information sharing and parent night activities.

Results

At Gauger Middle School 118 students completed the program with the following report card grade and test score results: 19% increased their grade in math by half a grade or more; 25% increased their grade in reading by half a grade or more; 42% decreased their grade by half a grade or more in math; 53% decreased their grade by half a grade or more in reading; 57% neither increased nor decreased their grade in math; and 40% neither increased nor decreased

their grade in reading.

At Kirk Middle School, 112 students completed the program with the following report card grade results: 24% increased their grade in math by half a grade or more; 32% increased their grade in reading by half a grade or more; 33% decreased their grade in math by half a grade or more; 35% decreased their grade in reading by half a grade or more; 55% neither increased or decreased their grade in math; and 46% neither increased nor decreased their grade in reading.

4. Associated Knowledge Areas

KA Code	Knowledge Area
803	Sociological and Technological Change Affecting Individuals, Families, and Communities
806	Youth Development
901	Program and Project Design, and Statistics

Outcome #2

1. Outcome Measures

2. Volunteer Leadership Development: 1) Increased knowledge of leadership skills and apply of these skills volunteering and leadership within the community. 2) Augmentation of Cooperative Extension program and resources through volunteer leaders providing education in communities and groups.

2. Associated Institution Types

- 1862 Extension
- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2014	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The University of Delaware and Delaware State University require the help of the Master Gardener Program to provide research based information to the surrounding communities. The educational program of the Master Gardener volunteers helps provide education in the form of workshops, demonstrations, plant and insect identification, and information about environmentally-friendly practices for the home gardener.

What has been done

The Master Gardener Program of Kent and Sussex County has 123 active volunteers enrolled in the program that provides assistance and outreach for both counties. A new class will be trained in 2015.

Results

This year, Sussex County Master Gardener reported over 7,212.3 volunteer hours (that is an average of 101 hours per Master Gardener [71 active] or 192 work weeks or 962 average work days) and saved the Universities over \$146,337.56. (Professional rate of \$20.29/hr) (7.5hr. day/37.5 hr. wk)* Independent Sector.org/volunteer_time. DE value for 2013.

Kent County Master Gardeners reported over 5,113.75 volunteer hours (average 98.34 volunteer hours per Master Gardener (52 active) or 136.36 work weeks or 681.83 average work days) and saved the Universities \$103,757.98. (Professional rate of \$20.29/hr) (7.5hr. day/37.5 hr. wk)* Independent Sector.org/volunteertime. DE value for 2013.

Combined Kent and Sussex Master Gardeners have saved DE Cooperative Extension (DSU and UD) 12,326.05 hours, worth \$250,095.54 (\$248,305.23 in 2013).

4. Associated Knowledge Areas

KA Code	Knowledge Area
801	Individual and Family Resource Management
803	Sociological and Technological Change Affecting Individuals, Families, and Communities
901	Program and Project Design, and Statistics

Outcome #3

1. Outcome Measures

3. Farm, Small Business, and Family Resource management: 1) Increased knowledge, increased awareness of skills to use, and adoption of best practices in financial management. 2) Increased knowledge, increased awareness and adoption of skills to use and evaluate and enhance business and marketing plans.

2. Associated Institution Types

- 1862 Extension
- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
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2014

0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

You and Health Insurance; Making a Smart Choice

Both the currently insured and the previously uninsured 200 million Americans in total have new options for health insurance under the Affordable Care Act. In Delaware the figure totals an estimated 90,000 people including those who would be newly eligible for Medicaid, and youth and adults who are currently uninsured. Research shows that almost all consumers are confused about how to purchase and use this new health insurance.

What has been done

In early 2014, working with team members from University of Maryland Extension Health Insurance Literacy team, a Delaware Extension educator worked to create a tax credit case study that helped to showcase how to use the Smart Choice educational materials by those participants who would be purchasing insurance from the Health Care Marketplace. In 2013 a program specifically designed for agriculture producers, Smart Choice Health Insurance for Farm Community was developed.

The Smart Choice Health Insurance program was offered to horticulture and landscape personnel during the August 2014 Turf and Landscape Expo and Ag Week. Frequently Asked Questions and Ask and Expert resources have been added to the extension.org and local UME and UD extension websites. Certification training has been offered around the country by the UME/UD team. A UD team member assisted with one of these trainings and assisted in presenting materials at the UME Personal Finance Seminar, and the APCPE Conference.

Results

As of January 1, 2015 certification training for use of this program has reached 29 states through the Cooperative Extension system reaching 129 educators.

In Delaware, the UD team offered 12 sessions scheduled throughout the state and 64 individuals, including 10 agricultural producers, attended the Agriculture Smart Choice program at Ag Week 2014 and 29 horticulture professionals during the Turf and Landscape Expo held in August 2014. Evaluation data analysis confirms that this educational program makes a difference. There is a statistically significant, strong positive correlation between the pre-test and the post-test showing that participants have an increase in confidence to make a Smart Choice Health Insurance decision as a result of attending the program.

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management
801	Individual and Family Resource Management
806	Youth Development
901	Program and Project Design, and Statistics

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Public Policy changes
- Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Issue: Delaware 4-H State Environmental Camp

The danger exists that Americans may not know enough about science, technology, or mathematics to significantly contribute to, or fully benefit from, the knowledge-based society that is already taking shape around us (Rising Above the Gathering Storm, Pre-Publication Version, February 2006 Edition, p. 3-24).

Response:

Delaware 4-H organizes an annual Environmental Camp for youth, including non-traditional youth, to encourage the pursuit of science outside of school. Delaware 4-H organized a three day-two night residential camp focused on environmental and natural resource conservation sciences. Students were educated on the importance of natural resources and conservation practices. They answered questions on the materials presented at the camp and related the importance of clean water, natural habitats for wildlife, and a clean community. Students demonstrated the knowledge they gained by offering suggestions of practices in which they could engage to conserve natural resources and protect the environment, and by participating in an exit survey using personal data collection strategies.

Results:

The majority of the youth answered 100% of all content-related questions correctly. In addition, 75% of the participants indicated that their favorite part of camp included the recreational portions. Finally, 61% indicated positively that they would return to this camp and 32% indicated that their future participation was probable.

Issue: Expanding Cooperative Extension's Reach into Communities through Volunteer Development

A 2013 CDC report about Delaware (<http://www.cdc.gov/chronicdisease/states/delaware.htm>) finds the following: 65% of adults in Delaware were overweight or obese and 32% of high schools students were overweight, based on self-reported height and weight; 69% of adults in Delaware consumed fruits and vegetables less than 1 time per day; 59% of Delaware high school students did not attend physical education classes; and 50% of adults in Delaware were not engaged in sufficient moderate or vigorous physical activity.

Response: Master Food Educator Volunteer program

This year's Master Food Educator Training Program was a 42-hour professional development curriculum offered in Kent and New Castle County via Adobe Connect. The program helped volunteers increase knowledge and confidence about nutrition, food

science, wellness, food preparation, and food safety. In addition, content such as working with adult audiences, preparing presentations, conducting food demonstrations, participants learn how to present information to the public. Hands-on activities and demonstrations enabled participants to apply their knowledge.

Impact:

During the 2014 program year, 29 Master Food Educators volunteered to support 22 workshops, 24 public events and assisted in judging 3 events, giving 900+ hours to Cooperative Extension's outreach efforts. This has an approximate economic value of \$20,709 (based on \$23.01/hour 2014 values from Independent Sector.org). MFE's reached 2,848 individuals through their workshops and public events efforts.

Issue:

The 2014 Farm Bill carries with it many new complex and date-sensitive policies that producers need to understand, evaluate and make decisions about regarding their farms and crops.

Response:

USDA-FSA and Cooperative Extension personnel have been trained on the tools and materials needed to deliver the educational information to producers. Producers need this education and unbiased information in order to make important and informed decisions for their farms. These decisions will impact their farms for the life of the farm bill (the next five years).

Results:

94 producers have participated in training thus far, and 94 have indicated that as a result of attending the meetings, they have a better understanding of the Farm Bill programs than they did prior to attending the workshops.

Key Items of Evaluation