

2014 University of Connecticut - Storrs Combined Research and Extension Plan of Work

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I. Plan Overview

1. Brief Summary about Plan Of Work

The College of Agriculture and Natural Resources at the University of Connecticut has identified six broad areas where research and extension programs have a direct role in improving lives, communities, businesses, and the environment. We are using these six broad areas - or themes - to organize our research and extension programs. The six areas are: Food Systems, Land Use and Water, Nutrition and Wellness, the Connecticut Green Industry, Youth Development and 4-H, and Family and Community Development. These six areas represent critical issues and critical audiences for Extension programs in the state. We are in the process of reforming teams - campus faculty and field educators - around these theme areas. Our goal is to develop stronger connections to key customers or critical audiences at the local, state, regional, and national level.

UConn Extension also is developing a business planning model to be implemented across these six theme areas. The planning model uses a logic model framework and includes a strong evaluative component. Outcomes for each of the six theme areas are under development. In this Plan of Work document, we provide only a basic framework for outputs and outcomes to be developed by the six teams.

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

Year	Extension		Research	
	1862	1890	1862	1890
2014	60.4	0.0	39.2	0.0
2015	60.4	0.0	39.2	0.0
2016	60.4	0.0	39.2	0.0
2017	60.4	0.0	39.2	0.0
2018	60.4	0.0	39.2	0.0

II. Merit Review Process

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

- Combined External and Internal University External Non-University Panel
- Expert Peer Review

2. Brief Explanation

The merit review process for Connecticut is grounded in the seven part test of guiding characteristics for an engaged institution as reported in the 1999 Kellogg Commission Report on The Engaged Institution. Key recommendations from external review processes continue as a foundation for program decisions. The 2006 ECOP Criteria of Excellence in Cooperative Extension also serves as a major standard for merit review. The process includes: planning by all faculty and staff by departments and focused issue groups; review of plan at the campus level; periodic reviews by peer institutions, and a review by stakeholders. A College Advisory Group of stakeholders also provides direction.

The Peer Review process for Hatch, McIntire-Stennis, and Animal Health Projects is designed to ensure that quality research projects consistent with identified priorities are approved. Review involves the objective opinion of other scientists, and/or administrators within the University of Connecticut, and/or external University scientists when appropriate. Peer review subjects every project to a rigorous and systematic evaluation for appropriateness and quality. The process is conducted within the framework of predetermined criteria whose objective is to assess whether each Storrs AES research project (1) is guided by state, regional, and national priorities, (2) is of high scientific merit and quality, (3) incorporates a state-of-the-art scientific approach (4) is likely to successfully meet the goals of the project, and (5) whether it is completed and prepared according to the Storrs AES guidelines. The peer review process provides principal investigators with additional counsel on research direction and implementation. Department Heads approve the proposals for submission. The Director or Associate Director oversees the peer review process and suggests qualified reviewers and is the ultimate authority to finally approve projects once they have been peer reviewed.

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?

Our six planned programs will address the critical issues of strategic importance to the state, including those identified by the stakeholders by newly formed faculty and field educator teams working together around these six theme areas. In 2014, the teams will focus on developing a business planning model using a logic model framework. In subsequent years, the model will be used to develop and implement activities and programs that address critical issues and needs facing local, regional, state and national citizens and communities.

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

Our planned programs will address the needs of under-served and under-represented populations, including lower income residents by incorporating all of our citizen's needs, interests and concerns at the program planning and development level. In addition, our activities and programs will be located in the communities where vulnerable populations live, work and attend school. Some of our planned programs include, nutrition education programs for lower income residents, minority youth and adult parenting and child care educational programs, and risk management education programs for limited resource

agricultural producers. The needs of under-served and under-represented populations will be reviewed on a regular basis to insure appropriate inclusion.

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

Impact reports will be submitted by our Extension personnel that report the progress of their programs and the outcomes and impacts achieved throughout the year. Research faculty will report the progress of their formula funded projects through a REEport progress reports. Our six planned program teams will utilize these reports to formulate outcomes and impact statements. They will also review expected outcomes and impacts with actual results of our programs and activities to guide the planned program over the next 5 years.

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

Our six planned program teams of campus faculty and field educators will develop a strong program evaluation component into their business planning model. The evaluation data will be used to improve program effectiveness and efficiency. In addition, we will develop our connections to key customers and critical audiences to assist us with continually improving our programs .

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
- Survey of traditional stakeholder groups
- Survey of traditional stakeholder individuals

Brief explanation.

The college-wide stakeholder input process will continue to include both research and extension. Our annual key event will be a Leaders' Forum, which included leaders of non-private organizations with whom Extension and researcher work. The Forum engages all participants in discussions on key issues and concerns within the college, region and state. We will use focus groups, web-based needs assessments, and the participation of faculty and staff on state boards, commissions and councils, to encourage and seek stakeholder input. The Dean will continue discussions with key stakeholders, members of the legislature and clientele.

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
- Use External Focus Groups
- Open Listening Sessions

- Needs Assessments
- Use Surveys

Brief explanation.

Individuals who participate in our programs and those with connections in industry groups that we serve, including those from underrepresented and underserved audiences will be used to assist us in identifying stakeholders.

We will collect input from our individual and group stakeholders by conducting the following activities. A State Extension Partners Council comprised of representatives of County Extension Councils and other affiliated organizations such as 4-H camp boards, IFYE, and the master gardener association will meet at least twice a year. The Dean's monthly update newsletter will be sent to all faculty and staff via e-mail/web, which reports on his conversations with stakeholders and clientele. We will use on-line tools to solicit input from potential and current clientele and stakeholders. The Dean and College leadership will meet regularly with representatives of 30 organizations, agencies and interests, who comprise a College Advisory Board.

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
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Meeting with invited selected individuals from the general public

Brief explanation.

Stakeholders such as vegetable producers and town officials will continue to provide input through end of session evaluations of programs with suggestions for improvements, as well as current and future needs. The CANR Journal, a periodic newspaper/web page, highlights research and extension efforts and is available to the public, with comments solicited. The Sea Grant program will collect input from aquaculture producers and town officials. Meetings with state boards such as the Food Policy Council and Farm Services Agency staff will provide additional stakeholder input. The Agricultural Risk Management Advisory Group, comprised of more than 40 agricultural related stakeholders from both traditional and non-traditional perspectives, will provide input on a regular basis. Increased use of the Internet, both e-mail and the Web, will provide input from a wide range of current and potential clientele.

3. A statement of how the input will be considered

- To Identify Emerging Issues
- Redirect Extension Programs
- Redirect Research Programs

- In the Staff Hiring Process
- In the Action Plans
- To Set Priorities

Brief explanation.

Stakeholder input will be considered when we redesign programs, or initiate new programs, as a basis for grant proposals, and as a means for obtaining different perspectives when the College considers restructuring programs.

V. Planned Program Table of Content

S. No.	PROGRAM NAME
1	Food Systems
2	Land Use and Water
3	Nutrition and Wellness
4	Connecticut Green Industries
5	Youth Development and 4-H
6	Families and Community Development

V(A). Planned Program (Summary)

Program # 1

1. Name of the Planned Program

Food Systems

2. Brief summary about Planned Program

The Food Systems program area is focused on reducing food insecurity in the state of Connecticut. Research and extension programs address food production, food safety, and the broader food system affecting access and distribution of food security. The food production component focuses on specialty crops (fruits and vegetables) - improving Best Management Practices (BMPs) for producers and incorporating pest management strategies and improved business practices. The food safety efforts include Good Agricultural Practices (GAP) training for crop producers, Hazardous Critical Control Points (HACCP) training for seafood producers and handlers, and safe practices for food storage for homeowners. The food systems work addresses improving access to fresh fruits and vegetables for low-income families, schools in urban areas, and many state institutions.

3. Program existence : New (One year or less)

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
205	Plant Management Systems	15%		4%	
206	Basic Plant Biology	0%		5%	
212	Pathogens and Nematodes Affecting Plants	6%		10%	
215	Biological Control of Pests Affecting Plants	6%		10%	
216	Integrated Pest Management Systems	20%		9%	
307	Animal Management Systems	6%		10%	
311	Animal Diseases	25%		40%	
315	Animal Welfare/Well-Being and Protection	0%		4%	
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	15%		4%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	7%		4%	
	Total	100%		100%	

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

1. Situation and priorities

Teams will work with customers to fully describe the current situation. Priorities will be established by teams working with customer groups.

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

We assume that economic, environmental, and social conditions will remain sufficiently consistent. Each year, teams will evaluate basic assumptions to ensure that conditions are within acceptable limits.

In addition, because we are a small state, we also are constrained by being "one deep" in many program areas. Retirements and transfers of our Extension faculty can create program discontinuities while we attempt to refill those vacancies.

2. Ultimate goal(s) of this Program

Reducing food insecurity in the state of Connecticut and across the northeast.

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
2014	6.1	0.0	1.0	0.0
2015	6.1	0.0	1.0	0.0
2016	6.1	0.0	1.0	0.0
2017	6.1	0.0	1.0	0.0
2018	6.1	0.0	1.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

We are planning to conduct the following programs/activities in the Food Systems planned program.

- Conduct research experiments
- Conduct workshops and webinars
- Develop YouTube videos, and mobile apps.
- Provide training
- Provide individual counseling and asesments
- Produce on-line material such as fact sheets, impact statments and news articles

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

Extension

Direct Methods	Indirect Methods
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<ul style="list-style-type: none">● Education Class● Workshop● Group Discussion● One-on-One Intervention	<ul style="list-style-type: none">● Newsletters● Web sites other than eXtension
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3. Description of targeted audience

Our target audience includes:

Consumers

Farmers/producers

Agency and organizations (staff) that serve or handle food at: camps; food pantries and soup kitchens; schools; day care centers, Head Start, senior centers, etc.

Food related businesses - processors, farmers' market masters and vendors, etc.

Seafood industry: seafood processors, dealers, harvesters, importers, and regulatory personnel.

Researchers, state, regional, national and internationally.

Policy makers

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

- Conferences and Workshops, short courses, reports
 - New or updated web page(s)
 - Undergraduate and Graduate Students Supervised
 - Webinars conducted
 - YouTube videos produced
 - Apps developed
- 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	Reduce food insecurity in the state of Connecticut and across the northeast.

Outcome # 1

1. Outcome Target

Reduce food insecurity in the state of Connecticut and across the northeast.

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 711 - Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
- 712 - Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

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

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

An improved evaluative component is being developed by our team of faculty and field educators as a part of the new Food Systems planned program business model.

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Land Use and Water

2. Brief summary about Planned Program

Land Use and Water planned program's broad emphasis is to address critical environmental priorities that contribute to improved air, soil, and water quality; fish and wildlife management; enhanced aquatic and other ecosystems.

The Land Use and Water program area is strongly focused on the use of geospatial technologies to promote smart growth while conserving the natural resource base. Programs provide research-based training for municipal officials that incorporates geospatial technologies allowing them to better manage existing natural resources. Connecticut is a water-rich state. However, local development can create substantial pressure on and competition for water resources. By linking water resource planning and land use planning, we can promote sustainable development.

3. Program existence : New (One year or less)

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%		15%	
103	Management of Saline and Sodic Soils and Salinity	0%		3%	
104	Protect Soil from Harmful Effects of Natural Elements	5%		5%	
111	Conservation and Efficient Use of Water	3%		5%	
112	Watershed Protection and Management	25%		15%	
123	Management and Sustainability of Forest Resources	6%		23%	
124	Urban Forestry	3%		0%	
131	Alternative Uses of Land	0%		5%	
132	Weather and Climate	0%		5%	
135	Aquatic and Terrestrial Wildlife	0%		5%	
136	Conservation of Biological Diversity	0%		4%	
205	Plant Management Systems	10%		0%	
216	Integrated Pest Management Systems	11%		8%	
605	Natural Resource and Environmental Economics	0%		5%	
608	Community Resource Planning and Development	22%		2%	
903	Communication, Education, and Information Delivery	5%		0%	
	Total	100%		100%	

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

1. Situation and priorities

Teams will work with customers to fully describe the current situation. Priorities will be established by teams working with customer groups.

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

We assume that economic, environmental, and social conditions will remain sufficiently consistent. Each year, teams will evaluate basic assumptions to ensure that conditions are within acceptable limits.

In addition, because we are a small state, we also are constrained by being "one deep" in many program areas. Retirements and transfers of our Extension faculty can create program discontinuities while we attempt to refill those vacancies.

2. Ultimate goal(s) of this Program

The goal of the Land Use and Water planned program is to make continued progress toward sustainable development with a focus on improved water management in Connecticut.

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
2014	1.6	0.0	0.2	0.0
2015	1.6	0.0	0.2	0.0
2016	1.6	0.0	0.2	0.0
2017	1.6	0.0	0.2	0.0
2018	1.6	0.0	0.2	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

We are planning to conduct the following programs/activities in our Land Use and Water planned program.

- Conduct research experiments
- Conduct workshops and webinars
- Develop YouTube videos, and mobile apps.
- Provide training
- Provide individual counseling and assessments
- Produce on-line material such as fact sheets, impact statements and news articles

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

Elected municipal officials; municipal land use staff and commissioners, researcher, city/town volunteers and citizens; state environmental and agriculture agency 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

- Conferences and Workshops, short courses, reports
 - New or updated web page(s)
 - Training undergraduate and graduate students and Post Doctoral Researchers
 - Webinars conducted
 - YouTube videos produced
 - Apps developed
- 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	Improve sustainable development practices in Connecticut

Outcome # 1

1. Outcome Target

Improve sustainable development practices in Connecticut

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 112 - Watershed Protection and Management
- 123 - Management and Sustainability of Forest Resources
- 205 - Plant Management Systems
- 605 - Natural Resource and Environmental Economics
- 608 - Community Resource Planning and Development
- 903 - Communication, Education, and Information Delivery

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

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

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

An improved evaluative component is being developed by our team of faculty and field educators as part of the new Land Use and Water planned program business model.

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Nutrition and Wellness

2. Brief summary about Planned Program

Connecticut is second among states in income disparity (comparisons of the wealthiest and poorest citizens). Across the state, obesity is on the rise in both urban and selected rural communities. Obesity rates have been climbing in children, and children born today are for the first time expected to have a shorter life span than their parents. Obesity is associated with a number of chronic diseases and health conditions including diabetes, heart disease, cancer, and the metabolic syndrome among others. Despite this knowledge, the prevalence of obesity continues to rise suggesting that more effective prevention and intervention strategies are needed to reverse this epidemic. Paradoxically, the root cause of obesity among financially underprivileged populations is driven by food insecurity coupled with less access to healthy foods (e.g. inner city "food swamps"). The Nutrition and Wellness program aims to increase knowledge about good eating and exercise habits to promote improved health and wellness.

3. Program existence : New (One year or less)

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
701	Nutrient Composition of Food	0%		30%	
702	Requirements and Function of Nutrients and Other Food Components	0%		40%	
703	Nutrition Education and Behavior	60%		20%	
724	Healthy Lifestyle	40%		10%	
	Total	100%		100%	

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

1. Situation and priorities

Teams will work with customers to fully describe the current situation. Priorities will be established by

teams working with customer groups.

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

We assume that economic, environmental, and social conditions will remain sufficiently consistent. Each year, teams will evaluate basic assumptions to ensure that conditions are within acceptable limits.

In addition, because we are a small state, we also are constrained by being "one deep" in many program areas. Retirements and transfers of our Extension faculty can create program discontinuities while we attempt to refill those vacancies.

2. Ultimate goal(s) of this Program

Our Nutrition and Wellness planned program goal is to conduct research and provide information and programs for children and families directed toward reducing obesity rates in Connecticut.

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
2014	0.7	0.0	0.3	0.0
2015	0.7	0.0	0.3	0.0
2016	0.7	0.0	0.3	0.0
2017	0.7	0.0	0.3	0.0
2018	0.7	0.0	0.3	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

We are planning to conduct the following programs/activities in our Nutrition and Wellness planned program.

- Conduct research experiments
- Conduct workshops and webinars
- Develop YouTube videos, and mobile apps.
- Provide training
- Provide individual counseling and assessments
- Produce on-line material such as fact sheets, impact statements and news

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 (home visits)	<ul style="list-style-type: none">● Newsletters● Web sites other than eXtension

3. Description of targeted audience

Limited resource families and youth; agency personnel, teachers, food service staff, camp personnel
Health personnel, researchers, policy makers, advocacy groups

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

- Conferences and Workshops, short courses, reports
- New or updated web page(s)
- Training of undergraduate, graduate and post doctoral students
- Webinars conducted
- YouTube videos produced
- Apps developed

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	Increase program participants knowledge about healthy lifestyle changes to promote improved health and reduce obesity.

Outcome # 1

1. Outcome Target

Increase program participants knowledge about healthy lifestyle changes to promote improved health and reduce obesity.

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

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
- Populations changes (immigration, new cultural groupings, etc.)
- Other (Lack of access to a supermarket)

Description

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

An improved evaluative componet is being developed by our team of faculty and field educators as part of the new Nutrition and Wellness planned program business planning model.

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Connecticut Green Industries

2. Brief summary about Planned Program

The green industry accounts for approximately two billion dollars in the Connecticut economy each year. This is a critical element of the Connecticut agricultural economy. However, it often is overlooked due to the considerable focus on food and food security. This program area is focused on developing new tools and technologies that promote safe and healthy green spaces across the state. Research and extension programs focus on Integrated Pest Management (IPM) approaches for schools and other municipal areas. Programs also address tools and techniques for groundskeepers to improve management of inputs on recreational areas. This team works in close collaboration with the land use and water team to create sustainable landscapes in rural and urban communities across the state and the region.

3. Program existence : New (One year or less)

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	5%		10%	
111	Conservation and Efficient Use of Water	5%		0%	
112	Watershed Protection and Management	5%		10%	
123	Management and Sustainability of Forest Resources	5%		10%	
124	Urban Forestry	5%		3%	
131	Alternative Uses of Land	5%		3%	
132	Weather and Climate	5%		3%	
135	Aquatic and Terrestrial Wildlife	5%		3%	
136	Conservation of Biological Diversity	5%		3%	
201	Plant Genome, Genetics, and Genetic Mechanisms	0%		10%	
202	Plant Genetic Resources	0%		5%	
205	Plant Management Systems	20%		5%	
206	Basic Plant Biology	5%		5%	
216	Integrated Pest Management Systems	5%		5%	
601	Economics of Agricultural Production and Farm Management	10%		10%	
602	Business Management, Finance, and Taxation	5%		0%	
605	Natural Resource and Environmental Economics	5%		5%	
607	Consumer Economics	5%		10%	
	Total	100%		100%	

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

Teams will work with customers to fully describe the current situation. Priorities will be established by teams working with customer groups.

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

We assume that economic, environmental, and social conditions will remain sufficiently consistent. Each year, teams will evaluate basic assumptions to ensure that conditions are within acceptable limits.

In addition, because we are a small state, we also are constrained by being "one deep" in many program areas. Retirements and transfers of our Extension faculty can create program discontinuities while we attempt to refill those vacancies.

2. Ultimate goal(s) of this Program

The Connecticut Green Industries goals include:

- 1) Improve the quality of community green spaces
- 2) Reduce chemical inputs into water bodies across the state and region
- 3) Promote best management practices to improve local greenhouse, nursery and landscape business products and services

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
2014	3.7	0.0	0.5	0.0
2015	3.7	0.0	0.5	0.0
2016	3.7	0.0	0.5	0.0
2017	3.7	0.0	0.5	0.0
2018	3.7	0.0	0.5	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

We are planning to conduct the following programs/activities in our Connecticut Green Industries planned program.

- Conduct research experiments
- Conduct workshops and webinars
- Develop YouTube videos, and mobile apps.
- Provide training
- Provide individual counseling and assessments
- Produce on-line material such as fact sheets, impact statements and news

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

Consumers, agricultural businesses, community agencies and organizations, greenhouse, nursery and landscape businesses.

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

- Conferences, workshops, short courses, and reports.
 - New or updated web page(s)
 - Number of undergraduate and graduate students and Post Doctoral Researchers trained
 - Webinars conducted
 - YouTube videos produced
 - Apps developed
- 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	Participants in attendance at green industry planned program activities adopting best management practices.

Outcome # 1

1. Outcome Target

Participants in attendance at green industry planned program activities adopting best management practices.

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 136 - Conservation of Biological Diversity
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems
- 602 - Business Management, Finance, and Taxation
- 605 - Natural Resource and Environmental Economics
- 607 - Consumer Economics

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

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
- Populations changes (immigration, new cultural groupings, etc.)

Description

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

An improved evaluative componet is being developed by our team of faculty and field educators as part of the Connecticut Green Industries planned program business planning model.

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Youth Development and 4-H

2. Brief summary about Planned Program

The Youth Development planned program is focused on creating safe, healthy, well-educated children and teens through 4-H Clubs, afterschool programs and interactive learning experiences. In addition, our efforts focus on incorporating Science, Technology, Engineering and Math (STEM) curriculum into youth development programs and activities.

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
205	Plant Management Systems	5%		0%	
307	Animal Management Systems	5%		25%	
315	Animal Welfare/Well-Being and Protection	5%		25%	
703	Nutrition Education and Behavior	5%		0%	
724	Healthy Lifestyle	10%		25%	
801	Individual and Family Resource Management	5%		0%	
802	Human Development and Family Well-Being	10%		25%	
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	5%		0%	
806	Youth Development	50%		0%	
	Total	100%		100%	

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

1. Situation and priorities

Teams will work with customers to fully describe the current situation. Priorities will be established by teams working with customer groups.

In addition, according to the US Department of Commerce's Economic and Statistics Administration over the past decade the number of STEM field job grew three times faster than non-stem jobs and STEM career employees earn 26 percent more than their non-STEM counterparts. Also, research shows that caring adults play an essential role in the healthy development of youth.

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

We assume that economic, environmental, and social conditions will remain sufficiently consistent. Each year, teams will evaluate basic assumptions to ensure that conditions are within acceptable limits.

Additional assumptions made for the Youth Development and 4-H program include:

4-H youth development staff has the skills and knowledge to respond to the needs of Connecticut's youth and facilitate non-formal education opportunities.

4-H is dependent on well-trained volunteers.

4-H is a proven youth development program for building confident, caring, contributing citizens.

2. Ultimate goal(s) of this Program

The goals for our program are to:

1) Engage youth in Science, Technology, Engineer, and Math (STEM) interactive activities by providing 4-H program opportunities and career experiences.

2) Implement 4-H youth programs that promote and teach positive life skills including leadership, citizenship and decision making and to develop youth programs around content supported by specialist in one or more of our other 5 planned program areas.

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
2014	5.4	0.0	0.2	0.0
2015	5.4	0.0	0.5	0.0
2016	5.4	0.0	0.5	0.0
2017	5.4	0.0	0.5	0.0
2018	5.4	0.0	0.5	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

We are planning to conduct the following programs/activities in our Youth Development planned program.

- Conduct workshops and webinars
- Develop YouTube videos, and mobile apps
- Provide volunteer training programs
- Provide individual counseling and assessments
- Produce on-line material such as fact sheets, impact statements and news
- Develop research-based curricula
- Conduct after-school programs
- Conduct youth employment programs
- Conduct camps

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 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● Web sites other than eXtension

3. Description of targeted audience

Youth, their families, school personnel, youth-serving agencies and organizations; community organizations and agencies. Volunteers involved with youth and adults.

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

- After-school programs [sites] conducted or organized.
- Conferences, workshops, short course, and reports
- Undergraduate and Graduate Student Supervised
- Webinars conducted
- YouTube videos produced
- Apps developed
- New or updated web sites

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 youth indicating increased knowledge or skills in one or more of the nine 4-H program emphasis areas

Outcome # 1

1. Outcome Target

Number of youth indicating increased knowledge or skills in one or more of the nine 4-H program emphasis areas

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

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 Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

Description

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

An improved evaluative componet is being developed by our team of faculty and field educators as part of our Youth Developmen and 4-H planned program business planning model.

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Families and Community Development

2. Brief summary about Planned Program

The Families and Community Development planned program is focused on providing Connecticut citizen a link to University of Connecticut specialist and current research in priority areas identified by our stakeholders. Our programs will also focus on providing programs that improve conditions for families and communities through leadership development, community planning, and technology training.

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

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

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

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

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
602	Business Management, Finance, and Taxation	20%		0%	
607	Consumer Economics	20%		50%	
801	Individual and Family Resource Management	20%		0%	
802	Human Development and Family Well-Being	20%		50%	
903	Communication, Education, and Information Delivery	20%		0%	
	Total	100%		100%	

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

1. Situation and priorities

Teams will work with customers to fully describe the current situation. Priorities will be established by teams working with customer groups.

In addition, municipalities depend on citizen volunteers to serve on community boards, planning committees, serve as youth development coaches, disaster relief workers, as well as elected officials. University of Connecticut Extension activities and programs offer non-formal educational

opportunities that develop caring, quality, contributing community members.

2. Scope of the Program

- In-State Extension
- In-State 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

We assume that economic, environmental, and social conditions will remain sufficiently consistent. Each year, teams will evaluate basic assumptions to ensure that conditions are within acceptable limits.

Additionally, the Families and Community Development planned program assumes that the University of Connecticut Extension staff has the knowledge, skills and resources to respond to the needs of Connecticut's families and communities by providing non-formal education opportunities.

2. Ultimate goal(s) of this Program

The Families and Community Development goals include:

- 1) To provide programs and activities that build upon an individual's strengths and life experiences to develop their leadership skills, parenting skills, and financial competencies.
- 2) To conduct sustainable living programs, with a focus on urban communities, that contribute to healthy living, as well as improved overall health and economic 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
2014	2.4	0.0	0.2	0.0
2015	2.4	0.0	0.2	0.0
2016	2.4	0.0	0.2	0.0
2017	2.4	0.0	0.2	0.0
2018	2.4	0.0	0.2	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

We are planning to conduct the following programs/activities in our Families and Community Development planned program.

- Conduct workshops and webinars
- Develop YouTube videos, and mobile apps
- Provide volunteer training programs
- Provide individual counseling and asesments
- Produce on-line material such as fact sheets, impact statments and news
- Develop research-based curricula

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 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● Web sites other than eXtension

3. Description of targeted audience

Parents, youth, children, teachers, elected officals and policy makers.

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

- Conferences, workshop, short courses, and reports
 - New or updated websites
 - Undergraduate and graduate students supervised
 - Webinars conducted
 - YouTube videos produces
 - Apps developed
- 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 program participants indicating increased leadership, parenting or financial management skills.

Outcome # 1

1. Outcome Target

Number of program participants indicating increased leadership, parenting or financial management skills.

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 602 - Business Management, Finance, and Taxation
- 607 - Consumer Economics
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 903 - Communication, Education, and Information Delivery

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

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

Description

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

An improved evaluation component is being developed by our team of faculty and field educators as part of the Families and Community Development business planning model.