

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Sustainable Plant Communities

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
201	Plant Genome, Genetics, and Genetic Mechanisms				
202	Plant Genetic Resources				
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants				
204	Plant Product Quality and Utility (Preharvest)				
205	Plant Management Systems				
206	Basic Plant Biology				
211	Insects, Mites, and Other Arthropods Affecting Plants				
212	Pathogens and Nematodes Affecting Plants				
213	Weeds Affecting Plants				
214	Vertebrates, Mollusks, and Other Pests Affecting Plants				
215	Biological Control of Pests Affecting Plants				
216	Integrated Pest Management Systems				
	Total				

V(C). Planned Program (Inputs)

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	50.0	0.0	10.0	0.0
Actual	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 Matching	1890 Matching	1862 Matching	1890 Matching
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 All Other	1890 All Other	1862 All Other	1890 All Other
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

V(D). Planned Program (Activity)

1. Brief description of the Activity

NO LONGER REPORTING ON THIS PLANNED PROGRAM

- Conduct applied research experiments with plants and plant material to improve cultural practices, pest management, and other factors to enhance sustainability.
- Publish studies and make presentations on research projects.
- Conduct workshops and meetings to educate local, state, and regional stakeholders concerning progress in producing plants that are economically viable and environmentally friendly.
- Deliver educational resources through various media
- Release new plant varieties relative to this program area under plant variety protection (PVP) status.
- Expand use of Integrated Pest Management (IPM).
- Provide "Orchard Pest Advisories" on over 15 insect, mite, and pathogen pests of tree fruit and small fruit crops (commercial and home garden).
 - Provide pest diagnostic assistance and management information to county agents, state and federal partners, commercial agriculture and horticulture producers, and the general public through the Utah Plant Pest Diagnostic Laboratory.
 - Certify or recertify Pesticide Applicator Training (PAT) for pesticide applicators to apply restricted use pesticides and to comply with the Utah Pesticide Control Act and the Federal Insecticide, Fungicide, and Rodenticide Act.
 - Coordinate efforts with other states and the Western Region Pest Management Center (WRPMC) as well as CAPS.
 - Enhance the USU Master and 4-H Junior Master Gardener Programs.
 - Conserving water in the landscape through appropriate landscape management and plant selection with regard to turfgrass management. Also, conduct the Water Check program throughout the Westch Front to encourage water conservation in landscapes.
 - Develop a manual that would meet the needs of industry professionals seeking certification as a Utah Certified Nursery Professional
 - Collaborate with the Utah Nursery and Landscape Association in an annual conference and trade show to illustrate "best management practices."
 - Continue the Western SARE Program.
 - Expand the Geospatial Extension Program.
 - Utilize multiple demonstrations/applied research plots to manage weeds in agronomic crops with results reported at field days, workshops, or annual meetings.
 - Conduct research on production of biofuel stocks on dry farms and marginal lands including roadsides and brownfields.

- Conduct educational programs to assist the public in managing small acreage and in establishing vegetable and fruit gardens in response to the economic downturn.

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2. Brief description of the target audience

The target audience for this work would be other scientists, agricultural producers, landscapers, general public, home owners, green industry officials, professional landscape managers, turfgrass sod producers, other private businesses, and government entities that conduct work in this area.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	82000	950000	15000	173000
Actual	0	0	0	0

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

Patent Applications Submitted

Year: 2010
 Plan: 0
 Actual: {No Data}

Patents listed

{No Data Entered}

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Plan	0	25	
Actual	0	25	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of variety or seed releases

Year	Target	Actual
2010	2	0

Output #2

Output Measure

- Number of peer-reviewed journal articles and books/chapters in books extensively peer reviewed

Year	Target	Actual
2010	20	0

Output #3

Output Measure

- Level of contract/grant funding

Year	Target	Actual
2010	1000000	0

Output #4

Output Measure

- Number of graduate students or post-doctorate's trained

Year	Target	Actual
2010	15	0

Output #5

Output Measure

- Number of PVP's (Plant Variety Protection) established

Year	Target	Actual
2010	1	0

Output #6

Output Measure

- Number of theses/dissertations completed

Year	Target	Actual
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2010

4

0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Number of clients (growers, government agency personnel, home orchardists, and others) increasing their knowledge of sustained plant production.
2	Number of times clients (growers, government agency personnel, home orchardists, and others) implement one or more sustained plant production practice(s).
3	Percentage increase in crop cash receipts (based on 1999-2004 average aggregate receipts).
4	Percentage increase in overall crop productivity (based on 1999-2004 average aggregate output).

Outcome #1

1. Outcome Measures

Number of clients (growers, government agency personnel, home orchardists, and others) increasing their knowledge of sustained plant production.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	68000	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

{No Data Entered}

What has been done

{No Data Entered}

Results

{No Data Entered}

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants
204	Plant Product Quality and Utility (Preharvest)
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

Outcome #2

1. Outcome Measures

Number of times clients (growers, government agency personnel, home orchardists, and others) implement one or more sustained plant production practice(s).

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	44000	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

{No Data Entered}

What has been done

{No Data Entered}

Results

{No Data Entered}

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants
204	Plant Product Quality and Utility (Preharvest)
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

Outcome #3

1. Outcome Measures

Percentage increase in crop cash receipts (based on 1999-2004 average aggregate receipts).

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	1	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
{No Data Entered}

What has been done
{No Data Entered}

Results
{No Data Entered}

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants
204	Plant Product Quality and Utility (Preharvest)
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

Outcome #4

1. Outcome Measures

Percentage increase in overall crop productivity (based on 1999-2004 average aggregate output).

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	1	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

{No Data Entered}

What has been done

{No Data Entered}

Results

{No Data Entered}

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants
204	Plant Product Quality and Utility (Preharvest)
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

V(H). Planned Program (External Factors)

External factors which affected 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.)
- Other (weeds, biofuels)

Brief Explanation

{No Data Entered}

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

1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparison between locales where the program operates and sites without program intervention

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}