

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Western Regional Plant Introduction Station (W-006)

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			10%	
202	Plant Genetic Resources			55%	
206	Basic Plant Biology			10%	
211	Insects, Mites, and Other Arthropods Affecting Plants			10%	
212	Pathogens and Nematodes Affecting Plants			10%	
215	Biological Control of Pests Affecting Plants			5%	
	Total			100%	

V(C). Planned Program (Inputs)

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	3.5	0.0
Actual	0.0	0.0	5.1	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
0	0	525803	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	47732	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	4047	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

This project promotes utilization of a wide array of plant genetic resources for grower, processor and consumer stakeholders, and safeguards the genetic resources for the future generation. This project is one of the four initial Regional Plant Introduction Stations established in the 1950s. In terms of numbers of populations managed, the fiscal, personnel, and facility resources utilized and the genetic diversity addressed, it is one of the most important components of the NPGS. As of February 8, 2011, there are 87,356 accessions. During the calendar year of 2010, we shipped out 22,212 packets of seed samples to 983 requesters from 46 countries worldwide. Our priorities have been preserving these important resources, making them available to researchers, and collecting as much evaluation data as possible for individual accessions. Project research, information documentation and germplasm conservation relate directly to all aspects of the USDA, ARS National Program Action Plan. We also provide communication platform to promote the utilization of plant germplasm by researchers in the Western Region, particularly scientists associated with the SAES Universities. Plant germplasm resources are being utilized in the region to support crop development, help to sustain small farm agriculture, preserve endangered species, and to improve revegetation of the public land in the Great Basin. They are also used to develop new U.S. crops, and encourage international trading diplomacy through exchange of plant germplasm. From 2007, WRPIS distributes over 20,000 seeds samples each year to requesters from both public and private sectors and approximately one-third of these samples (varying from 5,000 to 7,000 each year) went to the Western Region. Researchers in the Western Region also request a large number of needed plant germplasm from other NPGS sites.

2. Brief description of the target audience

The target audience for this program is plant researchers.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	30	2000	150	150
Actual	900	2000	50	150

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

Patent Applications Submitted

Year: 2010
 Plan: 0
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Plan	3	10	
Actual	0	14	14

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Peer reviewed journal articles

Year	Target	Actual
2010	10	14

Output #2

Output Measure

- Graduate students supported on Agricultural Research Center or other grant funds

Year	Target	Actual
2010	1	1

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Completion and publication of our work in peer reviewed journals
2	Continued distribution of valuable germplasm and information
3	Development of valuable germplasm
4	Continued distribution of valuable germplasm
5	Development of new collaborative projects with state federal and international research scientists
6	Continued provision of quality germplasm of the species maintained at the Pullman site and delivered to researchers worldwide
7	Basic and applied research resulting from the sharing of germplasm--production of genetic maps, analyses of diversity, new medicinal plants, ornamentals,etc.
8	Restoration and re-patriotization of germplasm to seed banks in countries of origin. [This is difficult to predict.]

Outcome #1

1. Outcome Measures

Completion and publication of our work in peer reviewed journals

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	10	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
206	Basic Plant Biology
211	Insects, Mites, and Other Arthropods Affecting Plants
212	Pathogens and Nematodes Affecting Plants
215	Biological Control of Pests Affecting Plants

Outcome #2

1. Outcome Measures

Continued distribution of valuable germplasm and information

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	18000	78000

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
206	Basic Plant Biology
211	Insects, Mites, and Other Arthropods Affecting Plants
212	Pathogens and Nematodes Affecting Plants
215	Biological Control of Pests Affecting Plants

Outcome #3

1. Outcome Measures

Development of valuable germplasm

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	1	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
215	Biological Control of Pests Affecting Plants

Outcome #4

1. Outcome Measures

Continued distribution of valuable germplasm

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	18000	200

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
202	Plant Genetic Resources
215	Biological Control of Pests Affecting Plants

Outcome #5

1. Outcome Measures

Development of new collaborative projects with state federal and international research scientists

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	3	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
206	Basic Plant Biology
211	Insects, Mites, and Other Arthropods Affecting Plants
212	Pathogens and Nematodes Affecting Plants
215	Biological Control of Pests Affecting Plants

Outcome #6

1. Outcome Measures

Continued provision of quality germplasm of the species maintained at the Pullman site and delivered to researchers worldwide

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	18000	20000

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources
215	Biological Control of Pests Affecting Plants

Outcome #7

1. Outcome Measures

Basic and applied research resulting from the sharing of germplasm--production of genetic maps, analyses of diversity, new medicinal plants, ornamentals,etc.

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	12	2

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
201	Plant Genome, Genetics, and Genetic Mechanisms
202	Plant Genetic Resources

Outcome #8

1. Outcome Measures

Restoration and re-patriation of germplasm to seed banks in countries of origin. [This is difficult to predict.]

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities

Brief Explanation

The major factor that will hinder or limit the success of this program is the reduction of fiscal resources. This is dependent on the political environment over which we have no

control. Environmental concerns are annual, in that there is a significant portion of the program that is done in the field, but these are constraints that are and always have been dealt with each year. This project supports (15%) a larger USDA-ARS program that does not have sufficient operation money, but the coordination and collaboration with the SAES is critical to the continued success and productivity of the entire effort.

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

1. Evaluation Studies Planned

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

Evaluation Results

Key Items of Evaluation