

# Utah State University

## Extension and the Agricultural Experiment Station

### Plan of Work

October 1, 1999 – September 30, 2004

#### Five Year Plan


#### Certification Signatures 1862 Directors



7-9-99

Date

Dr. Robert L. Gilliland  
Vice President and Dean Extension  
Director Cooperative Extension Service  
Utah State University

  
July 9, 1999  
Date

Dr. H. Paul Rasmussen, Director  
Utah Agricultural  
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# Table of Contents

		Page
Section I	<u>Stakeholder Input Process</u> .....	2
	Process Utilized	
	Identification of Critical Statewide Issues	
Section II	<u>Planned Programs and Research Activities</u> .....	6
	Extension Programs ... 6	
	Agricultural Experiment Station .....	47
	National Goal 1	National Goal 1
	National Goal 2	National Goal 2
	National Goal 3	National Goal 3
	National Goal 4	National Goal 4
	National Goal 5	National Goal 5
Section III	<u>Program Review Process</u> .....	81
	Merit Review Process – Extension Plan	
	Scientific Review Process – Agricultural Experiment Station Plan	
Section IV	<u>Multistate Activities Extension and Agricultural</u> .....	82
	<u>Experiment Station</u>	
	Extension Collaborators	
	Agricultural Experiment Station Collaborators	
	1997 Smith Lever Formula Fund Base Explanation	
	1997 Hatch Formula Fund Base Explanation	
Section V	<u>Integrated Research and Extension Activities</u> .....	91
	Integrated Activities Extension and Agricultural Experiment Station	
Section VI	<u>Addendum</u> .....	92
	I Cooperative Extension Regional Critical Issues	
	II Agricultural Experiment Station Regional Critical Issues	
	III Agricultural Experiment Station Active Projects, 1999	
	IV Cooperative Extension Smith-Lever 3 (d) Funded POW	
	V Cooperative Extension Civil Rights POW	

## **Section I**

### **Stakeholder Input Process**

Utah State University determined to develop a collaborative plan of work for the state of Utah. Beginning in early December 1998 the Utah Cooperative Extension (CES) and the Utah Agricultural Experiment Station (UAES) POW development team devised a plan, which would insure stakeholder input at the county, regional, and state level. Stakeholders at each of these levels including specialty commodity groups, community and regional leaders, extension advisory committees and lay citizens were invited to participate in stakeholder meetings held in 27 Utah counties.

Extension advisory councils convened these open meeting held between January – March 1999, seeking input on programs and research that potentially could be developed and conducted in respective counties. More than 500 persons statewide participated in these open to the public meetings. Additionally, advisory councils solicited input from under represented minorities, commodity group representatives and community leaders. The resultant effect of these sessions and contacts was a five-year plan of work, October 1, 1999 – September 30, 2004 developed by each county in the state. County extension staff refined and developed the county plans following the general topical matrix suggested by CSREES for the over-all state plan. County officials reviewed and agreed to the final county plan of work. The county plan of work along with targeted stakeholder program recommendations from the stakeholder meetings was then submitted.

Stakeholders also participated in nine regional CES and UAES listening sessions held March – April 1999. These sessions involved over 350 individuals who came to participate in a futuring session on how they perceived the next five years would change their communities and to establish targeted program and research priorities based on those perceived changes. An overall description of the programs and research priorities identified in these stakeholders listening sessions consistent with USDA goal areas is provided below.

The goal area with the least expressed interest is that related to a healthier, more well-nourished population (goal #3), with goal areas #1 and #5 being the primary concern, a competitive agricultural production system and enhanced economic and quality of life for families and communities, respectively.

Geographic Area	Goal Areas				
	1	2	3	4	5
Ogden	UAES, CES	UAES, CES	CES	UAES, CES	UAES, CES
Southeast (Green River)	UAES, CES	UAES, CES	CES	UAES	UAES, CES
Provo	UAES, CES			UAES, CES	CES
Uintah (Roosevelt)	UAES, CES	UAES		UAES	UAES, CES
Southwest (Cedar City)	CES			UAES, CES	UAES, CES
Northern (Logan)	UAES, CES	UAES		UAES	CES
South-central (Richfield)	UAES, CES	UAES, CES		CES	CES
Salt Lake	UAES, CES	UAES, CES		UAES, CES	UAES, CES
Utah State University	UAES, CES	UAES		UAES, CES	UAES, CES

Goal 1: An Agricultural Production System that is Highly Competitive in the Global Economy

Goal 2: To Provide a Safe and Secure Food and Fiber System

Goal 3: To Achieve a Healthier, More Well-Nourished Population

Goal 4: To Achieve Greater Harmony Between Agriculture and the Environment

Goal 5: To Enhance Economic Opportunities and Quality-of-life Among Families and Communities

UAES - Utah Agricultural Experiment Station

CES - Utah Cooperative Extension Service

### Identification of Critical Statewide Issues

A compilation of items determined to be the most important from stakeholder input meetings (not ranked in order of importance) are provided below under the agricultural experiment station and extension subheadings.

### **Agricultural Experiment Station**

- Preserving farmland and open spaces
- Improving production efficiency
- Determine ways of enhancing quality of life and improving family life
- Identify the important relationships between work and family
- Develop socially acceptable methods of water conservation, recycling, and use
- Develop alternative crops and enhance existing crops
- Expand study of intensively managed pastures
- Investigate best methods of waste control and disposal
- Expand marketing options for farmers
- Develop better methods of weed control/management
- Develop methods of identification and control of animal and plant diseases

### **Utah Cooperative Extension Service**

- Continue and expand technical to production agriculture, homeowners, and gardeners, etc.
- Expand master gardener program
- Encourage increased participation by volunteers
- Develop more technically related short courses (pesticide applications, etc.)
- Provide information to public on food safety
- Explore various livestock and crop marketing options
- Develop more community-based leadership programs for youth
- Continue with the satellite educational programs
- Provide information related to water use, conservation, and re-use
- Assist in development of community networks
- Expand use of partnerships to accomplish mutual purposes
- Educate the population as to what agriculture is and does
- Provide flexible program in money and financial management
- Educate local officials and populations regarding growth issues

The most important extension and research issues identified in stakeholder listening sessions by region are listed in Addendum I and II respectively.

*Utah State University  
Extension*

*Plan of Work*

# *Utah State University Extension*

CSREES

## *Plan of Work*

*October 1, 1999 – September 30, 2004*

### Goal 1

Through research and education, empower the agricultural system with knowledge that will improve competitiveness in domestic production, processing, and marketing.

- Agronomy/Crop Production
- Horticulture – Commercial Fruit and Vegetable Production
- Livestock



**CSREES - USU Extension POW - October 1, 1999 - September 30, 2004**

Program Title	Program Duration	Principle Program Goal	CSREES Goal Area	Unit Point of Contact	Collaborating Unit(s)	FTE	Required Program Support FTE x \$150k/year
Agronomy/Crop Production	Long Term Five Year Planning Period	Crop varieties common throughout the region such as alfalfa, corn silage, grass hay, pasture, cereal grains cut for hay, barley, wheat, oats and grain corn will be field tested under regional environments. Improved practices and better yields is the major goal of the program.	Goal 1	Ralph Whitesides USU, Plants, Soils and Biometeorology Phone 435 797-2259	CES Units In Idaho, Arizona, New Mexico, Wyoming, Colorado, Nevada, Multiple Utah Counties.	1.51 FTE	\$226,500 annually-all sources
Horticulture - Commercial Fruit and Vegetable Production	Long Term Five Year Planning Period	An expansion of the fruit and vegetable production capabilities of Utah will be implemented in this program. Concentration will be on developing increased commercial production of onions, sweet corn, melons and pumpkins.	Goal 1	Ralph Whitesides USU, Plants, Soils and Biometeorology Phone 435 797-2259	CES Units In Arizona, Nevada and California. Multiple Utah Counties. Higher Education Institutions: Brigham Young University	2.80 FTE	\$420,000 annually-all sources
Livestock	Long Term Five Year Planning Period	The majority of livestock receipts come from cow-calf operations, dairies and sheep but the future is grim because of economic considerations. This program will explore alternative marketing and production improvement strategies with dairy, swine, sheep, cattle producers, pasture owners and forage producers.	Goal 1	Ralph Whitesides USU, Plants, Soils and Biometeorology Phone 435 797-2259	CES Units In Idaho, Arizona, New Mexico, Wyoming, Colorado, Nevada. Multiple Utah Counties.	2.49 FTE	\$373,500 annually-all sources

**Certification Signature of Collaborating Unit**

*Robert L. Gilliland*

**Robert L. Gilliland**  
 Vice President and Dean  
 University Extension  
 Utah State University  
 Logan, Utah 84322-4900  
 Date 9-9-99

## **Executive Summary**

### **Program Title:**

Agronomy/Crop Production

### **Statement of Issues:**

Local agricultural producers will need to adapt in order to remain competitive in the future. This issue was identified as a key program issue in the statewide stakeholder listing sessions. "Explore various livestock and crop marketing options."

### **Performance Goals:**

Over 30% of Utah farmers will change a practice based on information provided through Extension.

### **Key Program Components:**

Seminars, workshops, tours, personal contacts, media contact, and publications.

### **Internal and External Linkages:**

Partnerships with other counties, states, businesses, state and federal agencies, soil conservation districts, and commodity associations.

### **Target Audiences:**

Farmers, ranchers, landowners, agricultural supply vendors, and government agencies servicing producers.

### **Evaluation Framework:**

Survey producers to determine changes in crop yields as a result of variety selection and management practices.

### **Output Indicators:**

5% of Utah growers will estimate that Extension information increased their income by \$1,000 or more.

### **Outcome Indicators:**

Average crop yield will increase by 2 - 5% for an aggregate economic impact of \$7,225,000 annually.

### **Program Duration:**

Long term (5 years or more)

**Allocated Resources:**

FTE = 1.51

1.51 x \$150,000 = \$226,500

**Education and Outreach Programs:**

Current ongoing activities include tours, field days, demonstration plots and seminars to assist the agricultural community with many aspects of crop improvement and agronomy related issues identified by stakeholders.

**Point of Contact:**

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E-mail: [ralphw@ext.usu.edu](mailto:ralphw@ext.usu.edu)

## **Executive Summary**

### **Program Title:**

Horticulture - Commercial Fruit and Vegetable Production

### **Statement of Issues:**

Some areas of Utah are suited for fruit and vegetable production and should be developed. This issue was identified as a key program issue in the statewide stakeholder listing sessions "Develop alternative crops and enhance existing crops."

### **Performance Goals:**

Increase statewide fruit production by 5% annually. Establish a centralized farmers market.

### **Key Program Components:**

Workshops, seminars, tours, personal contacts, and field demonstration/research trials.

### **Internal and External Linkages:**

Work with state horticulture and fruit groups, other states, county agents, specialists, and Department of Agriculture.

### **Target Audiences:**

Commercial fruit and vegetable growers, greenhouse producers, and part-time producers (homeowners).

### **Evaluation Framework:**

Pre and post tests, surveys, and economic analysis of alternative crop production.

### **Output Indicators:**

Growers using a farmers market or produce stand will get 10% more customers.

### **Outcome Indicators:**

Onion production will increase by 5%, and more local fruit production will increase available agricultural jobs.

### **Program Duration:**

Long term (5 years or more)

**Allocated Resources:**

FTE = 2.80

2.80 x \$150,000 = \$420,000

**Education and Outreach Programs:**

Current ongoing activities include tours, field days, demonstration plots and seminars to assist the commercial fruit and vegetable community with many aspects of crop improvement, marketing, variety selection, cultural practices and related issues identified by stakeholders.

**Point of Contact:**

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## Executive Summary

### **Program Title:**

Livestock

### **Statement of Issues:**

The majority of livestock receipts come from cow-calf operations, dairies, and sheep, but the future is grim because of economic considerations. This issue was identified as a key program issue in the statewide stakeholder listing sessions.

1. "Expand marketing options for farmers"
2. "Explore various livestock and crop marketing options"

### **Performance Goals:**

50% of livestock producers will market through a pool and receive more than open market value.

### **Key Program Components:**

Seminars, workshops, tours, mailing lists, publications, foreign involvement, record keeping, and waste management programs.

### **Internal and External Linkages:**

Collaboration with veterinarians, commodity groups, other agents, specialists, and state, local, and federal agencies.

### **Target Audiences:**

Dairy, swine, wool, sheep, cattle producers, pasture owners, and forage producers.

### **Evaluation Framework:**

Surveys, net return from pool marketing compared to open market, change in profitability.

### **Output Indicators:**

Approximately 42 additional livestock producers will use the Internet to gain information on livestock operations.

### **Outcome Indicators:**

Profitability of farms and ranches will improve by at least 5%.

**Program Duration:**

Long term (5 years or more)

**Allocated Resources:**

FTE = 2.49

2.49 x \$150,000 = \$373,500

**Education and Outreach Programs:**

Current ongoing activities include tours, field days, demonstration plots and seminars to assist the livestock and dairy community with many aspects of worldwide marketing, feed practices, profitability, calf and lamb pools, maintaining records and other cultural practices and related issues identified by stakeholders.

**Point of Contact:**

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# *Utah State University Extension*

CSREES

## *Plan of Work*

*October 1, 1999 – September 30, 2004*

### Goal 2

To ensure an adequate food and fiber supply and food safety through improved science-based detection, surveillance, prevention, and education.

- Safe and Secure Food and Fiber System



**CSREES - USU Extension POW - October 1, 1999 - September 30, 2004**

Program Title	Program Duration	Principle Program Goal	CSREES Goal Area	Unit Point of Contact	Collaborating Unit(s)	FTE	Required Program Support FTE x \$150k/year
Safe and Secure Food and Fiber System	Long Term Five Year Planning Period. Food Safety Manager Training - immediate duration	This program responds to public concerns about pesticide and drug residues in food and improper food handling and preparation in food service establishments and in the home. Educational programs will assist producers and consumers in wise management of resources and reduction of waste.	Goal 2	Charlotte P. Brennan, USU, Nutrition and Food Sciences, Phone 797-2116	CES units in Nevada, New Mexico, Arizona, Colorado and Wyoming. Multiple Utah Counties. Native American Tribes	3.49 FTE	\$532,500 annually-all sources

**Certification Signature of Collaborating Unit**

*Robert L. Gilliland*  
 Robert L. Gilliland  
 Vice President and Dean  
 University Extension  
 Utah State University  
 Logan, Utah 84322-4900  
 Date 7-9-99

## **Executive Summary**

### **Program Title:**

A Safe and Secure Food and Fiber System

### **Statement of Issues:**

Food producers, food service establishments, and consumers all play a role in the safety of food. Educational efforts on causes of foodborne illness must be made on all levels to insure the health of Utahns and visitors. This issue was identified as a key program issue in the statewide stakeholder listing sessions "Provide information to public on food safety."

### **Performance Goals:**

The Food Safety program in Utah responds to public concerns about pesticide and drug residues in food and improper food handling and preparation in food service establishments and in the home. Educational programs will assist producers and consumers in wise management of resources and reduction of waste.

### **Key Program Components:**

There will be an ongoing interaction with consumers on safe food processing, storage and preparation. Professional food handlers in restaurants and institutions will offer the necessary training and certification to become Certified Food Safety Managers. Training programs in beef quality assurance, pesticide applications, and reduction of use of chemicals through Integrated Pest Management (IPM) will be conducted.

### **Internal and External Linkages:**

Internal: County educators and specialists in Food Safety, Dairy & Beef Quality Assurance, EFNEP, pesticide application, IPM, and volunteers.

External: Utah agencies (Agriculture, Public Health, Education), restaurant, agricultural, food production and homemaker associations, schools, senior citizen centers, and religious organizations. FDA/USDA's Fight Bac programs.

### **Target Audiences:**

Everyone in the state is vulnerable to foodborne illness. Training of food handlers, food producers, and consumers including youth, elderly and the vulnerable are especially important.

**Evaluation Framework:**

When appropriate evaluation will be by passing certification exams. Pre- and post-tests, surveys and general compliance data will also be used.

**Output Indicators:**

Output will be measured by the number of direct and indirect contracts made by Extension personnel and percent of clients that meet individual program goals.

**Outcome Indicators:**

Utahns will have a reasonably priced, safe food supply from field to table.

**Program Duration:**

The production of a Food Safety Manager Training Program is immediate. All other programs are ongoing.

**Allocated Resources:**

3.49 FTE

3.49 x \$150,000 = \$523,500

Other Specialists:

C. Bagley

D. Zobel

G. Lauritzen

K. Saunders

D. Alstron

**Education and Outreach Programs:**

Current ongoing activities include tours, youth training programs in food handling, food preservation, food storage and home food safety training videos, food service manager courses, independent training modules, seminars and other activities to meet related issues identified by stakeholders.

**Point of Contact:**

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# *Utah State University Extension*

CSREES

## *Plan of Work*

*October 1, 1999 – September 30, 2004*

### Goal 3

Through research and education in nutrition and development of more nutritious foods, enable people to make health-promoting choices.

- Nutrition and Health

**CSREES - USU Extension POW - October 1, 1999 - September 30, 2004**

Program Title	Program Duration	Principle Program Goal	CSREES Goal Area	Unit Point of Contact	Collaborating Unit(s)	FTE	Required Program Support FTE x \$150K/year
Nutrition and Health	Long Term Five Year Planning Period	Optimum nutritional status is a critical factor in the health and well being of all people but especially important for high risk groups such as infants, pregnant women, teenagers, elderly and low income. This program will improve the quality of diet through improved eating behaviors and increased nutritional knowledge.	Goal 3	Georgia Lauritzen, USU, Nutrition and Food Sciences, phone 797-3464	State agencies and multi county areas within the state of Utah. Native American Tribes	3.9 FTE	\$585,000 annually-all sources
<p><b>Certification Signature of Collaborating Unit</b></p> <p><i>Robert L. Gilliland</i></p> <p><b>Robert L. Gilliland</b>  Vice President and Dean  University Extension  Utah State University  Logan, Utah 84322-4900  Date 7-9-99</p>							

## Executive Summary

### **Program Title:**

Nutrition and Health

### **Statement of Issues:**

All of the regional stakeholder meetings held in Utah identified food and nutrition education as a priority.

### **Performance Goals:**

Two general goals are established: 1) to improve eating behaviors and 2) increase nutrition knowledge.

### **Key Program Components:**

Traditional Extension base programs in food and nutrition include a wide range of activities and presentations for very diverse audiences based on dietary guidance as given in Dietary Guidelines for Americans.

### **Internal and External Linkages:**

All programming in food and nutrition will be coordinated with other existing agency programs of a similar nature and audience.

### **Target Audiences:**

Nutrition and health activities are conducted for the benefit of all people in the state with special considerations for nutritionally at-risk populations.

### **Evaluation Framework:**

All nutrition education will be evaluated by a variety of methods depending on appropriateness of the activity.

### **Output Indicators:**

Indicators are based on consequences of eating behavior improvement and increase in nutrition knowledge.

### **Outcome Indicators:**

Health improvements which reduce health care costs.

**Program Duration:**

Varies with specific activity but most will be ongoing programs on a long-term basis.

**Allocated Resources:**

3.9 FTE

3.9 x \$150,000 = \$585,000

**Education and Outreach Programs:**

Current ongoing activities include training programs on diet, exercise and health, small and large group seminars on lifestyle changes, healthy food selection, basic cooking skills, nutrition for pregnancy, infants and children. Workshops on family food shopping, food storage and emergency preparedness and other activities to meet related issues identified by stakeholders are being held.

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# *Utah State University Extension*

CSREES

## *Plan of Work*

*October 1, 1999 – September 30, 2004*

### Goal 4

Enhance the quality of the environment through better understanding of and building on agriculture's and forestry's complex links with soil, water, air, and biotic resources.

- Rural and Community Forestry Extension
- Sustainable Livestock Production: Animal Feeding Operations and Environmental Quality
- Rangeland Resources Extension
- Noxious Weed Control

# CSREES - USU Extension POW - October 1, 1999 - September 30, 2004

Program Title	Program Duration	Principle Program Goal	CSREES Goal Area	Unit Point of Contact	Collaborating Unit(s)	FTE	Required Federal Support FTE x \$150k/year
Rural and Community Forestry Extension	Long Term Five Year Planning Period	This program will improve private forest management, enhance sustainable processing and use of forest products, improve the health and quality of urban/community forests, reduce fire hazards, increase the health and functionality of windbreaks and increase adult and youth awareness of forestry issues.	Goal 4	Mike Kuhns, USU, Department of Resources, Phone 797-4056	Numerous federal and state agencies. Multiple Utah Counties	3.0 FTE	\$450,000 annually-all sources \$150k/year
Sustainable Livestock Production: Animal Feeding Operations and Environmental Quality	Long Term Five Year Planning Period	Five counties in Utah and several collaborative neighboring state counties will assist animal feeding operations in responding to the new USEPA regulations regarding manure management to protect environmental quality. Confined livestock production enterprises can negatively impact natural resources and environmental quality, through a series of training programs regulatory standards will be delineated with livestock producers.	Goal 4	USU County Agents Dean Miner, Gary Anderson, Scott Williams, Mark Nelson and Don Huber and Rich Koenig, USU Extension Soil Specialist, Phone 435 797-2278	CES Units in Colorado, New Mexico, and Idaho and Utah Department of Environmental Quality, Division on Water Quality. Utah Counties: Sanpete, Rich, Beaver, Cache, Uintah, Lincoln	2.0 FTE	\$230,000 annually-all sources Other Support: \$69,400
Rangeland Resources Extension	Long Term Five Year Planning Period	Pressure on rangeland owners and users in forcing efficiency and sustainable pasture, rangeland and watershed management requires that Extension take an active role in leadership and education to increase environmental and economic sustainability or rangeland and pasture use.	Goal 4	Roger E. Banner, USU, Department of Rangeland Resources, Phone 435 797-2472	CES units in Arizona, Nevada, Wyoming and Montana. Other Higher Education Institutions: University of Arizona	1 FTE	\$136,000 annually-all sources Other Support: \$14,000
Noxious Weed Control	Long Term Five Year Planning Period	Noxious weeds reduce agriculture productivity and threaten natural ecosystems in the West. This program will help private and public land managers stop the spread and reduce the existing acreage of noxious weeds in Utah	Goal 4	Steve Dewey, USU, Plants Soils and Biometeorology, Phone 435 797-2256	Utah agencies i.e., transportation, wildlife BLM, Park Service, SCS, Forest Service, Multiple Utah Counties	1.75 FTE	\$262,500 annually-all sources

**Certification Signature of Collaborating Unit**



**Robert L. Gilliland**  
 Vice President and Dean  
 University Extension  
 Utah State University  
 Logan, Utah 84322-4900  
 Date 7-9-99

## **Executive Summary**

### **Program Title:**

Rural and Community Forestry Extension

### **Statement of Issues:**

Utah's urban and community forests are very important from both human and environmental standpoints. This issue was identified as a key program issue in the statewide stakeholder listing sessions.

1. "Continue and expand technical programs for production, agriculture, homeowners, gardeners, etc."
2. "Preserving farmland and open spaces"
3. "Develop more technically-related short courses"
4. "Expand multiple use of natural resources"

### **Performance Goals:**

This program will improve private forest management, enhance sustainable processing and use of forest products, improve the health and quality of urban/community forests, reduce fire hazards, increase the health and functionality of windbreaks, and increase adult and youth awareness of forestry issues.

### **Key Program Components:**

The program will consist of a combination of forest landowner, products, and urban/community, wildland-urban, and windbreak education programs.

### **Internal and External Linkages:**

The program will involve local community, state, and federal agency personnel, as well as County Agents and other Extension Specialists.

### **Target Audiences:**

The program will involve local community, state, and federal agency personnel, as well as County Agents and other Extension Specialists.

### **Evaluation Framework:**

The program will be evaluated according to the number of participants, and by the participants for quality, effectiveness, and impact through written surveys.

**Output Indicators:**

Successful completion of this program will improve forest management decision making by a diverse audience of landowners, public land managers, communities, and youth.

**Outcome Indicators:**

Newsletters, fact sheets, educational events/programs, web sites, videos, multimedia, mass media contacts, personal contacts, demonstration sites, applied research projects.

**Program Duration:**

This is a long term program (1999-2004).

**Allocated Resources:**

3.0 FTE

3.0 x \$150,000 = \$450,000

**Education and Outreach Programs:**

Current ongoing activities include demonstration plantings, seminars to assist the urban foresters and farmers with wild-land-urban forest interface, windbreaks and agro-forestry and forestry education. And other related issues identified by stakeholders.

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## **Executive Summary**

### **Program Title:**

Sustainable livestock production: animal feeding operations and environmental quality.

### **Statement of Issues:**

Confined livestock production enterprises can negatively impact natural resources and environmental quality. This issue was identified as a key program issue in the statewide stakeholder listing sessions "Investigate the best methods of waste control and disposal."

### **Performance Goals:**

This program will assist animal feeding operations in responding to new USEPA regulations regarding manure management to protect environmental quality in Utah.

### **Key Program Components:**

Through workshops, bulletins, fact sheets, popular press articles, demonstration projects, and tours, livestock producers and state and federal agency personnel will become trained in sustainable manure management techniques to preserve environmental quality.

### **Internal and External Linkages:**

The program will involve cooperation among many state and federal agency personnel, as well as County Agents and other Extension Specialists.

### **Target Audiences:**

The target audience is livestock producers and state and federal agency personnel responsible for assisting these producers.

### **Evaluation Framework:**

The program will be evaluated by written evaluations, changes in water quality in impacted watersheds, monitoring of livestock production changes, and the number of individuals participating in the program.

**Output Indicators:**

Numbers of farms meeting compliance standards for manure; increased water quality and decreased erosion on upland range sites.

**Outcome Indicators:**

Ultimately, this program will improve water quality in watersheds impacted by animal feeding operations throughout Utah.

**Program Duration:**

This is a long term program (1999-2004).

**Allocated Resources:**

2 FTE

2 x \$150,000 - \$69,400 = \$230,600

**Education and Outreach Programs:**

Current ongoing activities include field trips, seminars, and workshops to assist ranchers, farmers and feedlot managers with nutrient management practices, waste management, soil and manure sampling techniques and environmental education programs on water quality in the public schools. Other related issues identified by stakeholders included pasture management with intensive grazing and identifying CAFO and AFO classifications.

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# Executive Summary

## **Program Title:**

Rangeland Resources Extension

## **Statement of Issues:**

Pressure on rangeland owners and users is forcing efficiency and sustainable pasture, rangeland, and watersheds management. This issue was identified as a key program issue in the statewide stakeholder listing sessions.

1. “Expand study of intensively managed pastures”
2. “Provide information related to water use, conservation, and reuse”

## **Performance Goals:**

Focus on leadership and education to increase environmental and economic sustainability of rangeland and pasture use.

## **Key Program Components:**

Based on collaboration and partnerships with organizations and people to present educational programs. Links research and extension and is interdisciplinary, multi-institutional, and multi-state.

## **Internal and External Linkages:**

UAES and the NRCS along with the regional WIRE program of SARE and close cooperation with Arizona and Nevada CES.

## **Target Audiences:**

Private landowners, public rangeland managers and rangeland users are the targeted audiences.

## **Evaluation Framework:**

Evaluated as an educational program providing leadership, service, encouragement, motivation and information. Functional programs that promote economic and environmental sustainability of rangeland use and management.



**Output Indicators:**

Leadership provided to produce a functioning Utah GLCI coalition that provides landowner leadership in grazing lands conservation in Utah. An active Coordinated Resource Management Program in Utah with success stories to share. An on-going WIRE program with increasing participation and graduates that have formalized ranch management plans. Educational materials on plant-herbivore interactions and other topics that stimulate understanding and interest in more intensive management of grazing animals and land.

**Outcome Indicators:**

Results will be a substantial contribution toward achievement of greater harmony between agriculture and the environment.

**Program Duration:**

This is a long term program, expected to grow in breadth and detail.

**Allocated Resources:**

1 FTE

1 x \$150,000 - \$14,000 = \$136,000

Other Support:

RLEP \$14,000

**Education and Outreach Programs:**

Current ongoing activities include statewide conferences, field trips and demonstrations, short courses, and workshops to assist agriculturists, agency managers and rangeland users in making improved decisions on public policies related to public and private rangelands. Other related issues identified by stakeholders included programs to increase economic and environmental sustainability of rangeland and pasture management for farmers and ranchers.

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# Executive Summary

## **Program Title:**

Noxious Weed Control

## **Statement of Issues:**

Noxious weeds reduce agricultural productivity and threaten natural ecosystems in the West. This issue was identified as a key program issue in the statewide stakeholder listing sessions.

1. "Develop better methods of weed control and management"
2. "Expand use of partnerships to accomplish mutual purposes"

## **Performance Goals:**

Help private and public land managers stop the spread and reduce the existing acreage of noxious weeds in Utah.

## **Key Program Components:**

Provide clientele with information on weed impact, spread, identification, mapping and effective management through seminars, publications, and field demonstrations.

## **Internal and External Linkages:**

County, state, and federal entities having weed management responsibilities or interests.

## **Target Audiences:**

Farmers, ranchers, public land users, state and federal land-managing agencies, and the general public.

## **Evaluation Framework:**

Pre- and post-training evaluations of audience skill levels. Changes in weed infestation acreages.

## **Output Indicators:**

Numbers of seminars, tours, publications, demonstrations, and contacts.

## **Outcome Indicators:**

Skills and knowledge increased in 1000 persons. Weeds detected and controlled in counties. Farm profitability increased by 5 percent.

## **Program Duration:**

1999 - 2004

**Allocated Resources:**

1.75 FTE

1.75 x \$150,000 = \$262,500

**Education and Outreach Programs:**

Current ongoing activities include statewide efforts to share information about the location and control of noxious weed infestations. Bulletins and public informational articles have been released to make the public more aware of noxious weed control. Workshops on integrated weed management are being held throughout the state to introduce stakeholders with management practices other than herbicide applications.

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# *Utah State University Extension*

CSREES

## *Plan of Work*

*October 1, 1999 – September 30, 2004*

### Goal 5

Empower people and communities, through research-based information and education, to address the economic and social challenges facing our youth, families and communities.

- Families and Youth at Risk
- Business Retention and Expansion
- Economic Development Planning
- Youth and 4-H

