

University of Idaho Extension

Plan of Work Update

2005-2006

Contents of this document	page
Overview of plan of work update	2
Relationship between 2000-04 Major Programs and 2005-06 Topic Teams	3
Plan for reporting data	4
Primary underserved audiences in Idaho	4
Stakeholder input	4
Multi-state programming	5
Integrated programming	5
Resources invested in Idaho Extension	6
Appendix A.	
Planned Topic Team projects, outputs, and outcomes for 2005-2006	7

Overview

University of Idaho Extension continues to develop and deliver educational programs consistent with those described for the planning years 2000-2004. The role of agriculture in Idaho, and the critical issues facing the residents of Idaho have not changed significantly, and this plan continues the work described for 2000-2004. Increased targeting of our faculty and fiscal resources since 1999, however, has led to the transformation of our planned “Major Program Thrusts” (as described in the 2000-2004 plan of work) into “Topic Teams” described for this plan of work update. The changing organization improves faculty collaboration, particularly important for integration of our research and extension activities. Transformation to topic teams also facilitates more targeted programs, more specific outcomes, and better linkages between issues and expertise.

The Topic Teams are primarily affiliated with the USDA Goals as described below. However, several teams report at least some of their projects under multiple goals. Specific work plans are described for each Topic Team in Appendix A. Specific Team projects, expected outcomes, and outcome indicators are also described in Appendix A.

Goal 1. An agricultural system that is highly competitive in the global economy.

- Beef Topic Team
- Bluegrass Systems Topic Team
- Cereals Topic Team
- Dairy Topic Team
- Farm & Ranch Management Topic Team
- Forages Topic Team
- Other Idaho Crops Topic Team
- Potatoes Topic Team
- Sheep, Swine, Aquaculture & Other Livestock Topic Team
- Small Acreages Topic Team
- Sugar Beets Topic Team

Goal 2. A safe and secure food and fiber system

- Food Safety Topic Team

Goal 3. A healthy, well nourished population

- Health & Nutrition Topic Team

Goal 4. Greater Harmony between agriculture and the environment

- Commercial and Consumer Horticulture Topic Team
- Environmental & Resource Policy Topic Team
- Forest Management Topic Team
- Nutrient & Waste Management Topic Team
- Pesticide Safety Education Program (PSEP) Topic Team
- Range Management Topic Team
- Water Quality Topic Team

Goal 5. Enhanced economic opportunity and quality of life for Americans

- Family Financial Management Topic Team
- Individual and Family Development Topic Team
- Youth Development/4H Topic Team
- Community Development Topic Team

Relationship between 2000-04 Major Programs and 2005-06 Topic Teams.

GOAL	2000-04 Major Program Thrust	2005-06 Topic Teams
1. Competitive Agriculture	Farm and Ranch Economics	Farm & Ranch Management
	Animal Systems and Range Management	Beef
		Dairy
	Plant Systems	Sheep, Swine, Aquaculture & Other Livestock
		Bluegrass Systems
		Cereals
		Forages
		Other Idaho Crops
		Potatoes
	Sugar Beets	
2. Safe-Secure food systems	Food Safety & Quality	Food Safety
3. Health & nutrition	Well Being-nutrition & health	Health & Nutrition
4. Harmony-agriculture/environment	NAPIAP	Pesticide Safety Education Program (PSEP)
	Pest Applicator Training	IPM
	IPM	
	Sustainable Agriculture	Small Acreages
	Water Quality	Water Quality Topic Team
	Farm Safety	
	Environmental Horticulture and Gardening	Commercial and Consumer Horticulture
	Private Woodlot/Forest Management	Forest Management
		Range Management
		Nutrient & Waste Management
	Environmental & Resource Policy	
5. Economic opportunity-quality of life	Community Economic Development	Community Development
	Family Resource Management	Family Financial Management
	Human Relationships	Individual and Family Development
	Volunteer and Leadership Development	
	4-H/Youth Education Program	Youth Development/4H

Plan for reporting data

UI Extension has built and implemented an electronic reporting system (called IDEAS—Idaho Extension Accountability System) in which all faculty participate. IDEAS is a nested system of databases that allows faculty to input data in a hierarchical scheme, such that data can be sorted or compiled for a variety of purposes.

At the lowest level of organization, faculty can report individual activities. Data that can be reported for activities includes inputs (grants, collaborators, time, area served, and knowledge resources), outputs (educational events, publications, audience participants, and other products), and outcomes (changes in knowledge, attitudes, skills, behaviors, practices, and economic, social, or environmental conditions). Activities of multiple faculty can be reported to team projects, and team projects can be compiled for each individual Topic Team. At the highest level of organization, data from Topic Teams can be compiled according to the USDA goals.

UI Extension compiles annual reports for each Topic Team, and a single statewide report that reorganizes information from the Topic Team projects into the “Key Themes” defined for the Federal report. The timeframe for the UI Topic Team and statewide reports is from November 1 through October 31—a compromise to meet our system requirement for Federal reporting (Federal fiscal year) and also meet faculty’s individual requirements for performance reporting (calendar year) without forcing faculty to develop multiple reports.

Primary underserved audiences in Idaho

Census data indicates that Idaho’s Latino population continues to grow rapidly, primarily based on new immigration from Spanish-speaking countries. As a consequence, our effort to deliver Spanish-language programs has intensified, and will continue to do so. Other underserved audiences, including limited resource families, Native Americans, and suburban residents remain priority targets for UI Extension.

Stakeholder Input

UI Extension gathers input from Extension Stakeholders on an ongoing basis. Specific efforts include annual consultations with advisory committees in each county, commodity and interest group advisory committees, the statewide Extension Advisory Board, Dean’s Advisory Board, and academic Departmental Advisory Boards. Additional input is gathered through post-program evaluations and surveys, annual meetings with county commissions, and visits with other state and local elected officials.

UI Extension is in the process of conducting a random statewide mail survey to solicit input about our programs and priorities. This process, to be completed in summer 2004, will be followed by town hall meetings for residents across the state and also for specific interest groups. The results of the survey and town hall meetings will be

analyzed and findings will be incorporated (along with input from our other processes) into our next long-term plan of work.

Multi-state Programming

UI Extension faculty participate in a wide range of multi-state activities. Many of the multi-state activities are formally documented as multi-state research and coordinating projects, collaborative grants, national and regional professional association activities, and similar channels. Other multi-state activities are less formally structured, such as shared workshops (with neighboring states), joint publications (often through PNW publications), and various collaborative activities.

Our County-level Extension faculty (70 FTE positions) report an average investment of their time between 4-5% of an annual full-time equivalent. However, these numbers vary greatly for an individual faculty member from year to year. Our specialist faculty (35 FTE positions distributed among 57 faculty) invest an average of 10-15% of their total time on multi-state activities, and their commitment appears less volatile than for county faculty. Administrators (9.4 FTEs) invest from 10-25% of their time on multi-state activities.

Our plan for evaluating multi-state programming is to continue as per our 2000-2004 plan of work.

Integrated Programming

Integration between research and extension activities is built into the staffing plan of UI Extension. Of our 57 faculty specialists, 49 of them have joint appointments with the Idaho Agricultural Experiment station. In addition, our remaining eight specialists and 70 county educators also have responsibility to conduct scholarly programs, including a research component. Integration of research and extension will continue as for 2000-2004. Our plan for reporting and evaluating our integrated program activities is to continue as per our 2000-2004 plan of work.

Resources Invested in Idaho Extension

Year Category	2001	2002	2003	2004	2005	2006
Goal 1						
S-L (3)b,c	\$ 1,142,433	\$ 709,000	\$ 1,147,040	\$ 1,112,628	\$ 1,112,628	\$ 1,112,628
State R&E	3,595,921	3,723,000	3,746,923	3,746,923	3,634,515	3,634,515
County approps	138,590	(incl in state)	544,481	560,815	560,815	560,815
Grants	N/A	1,450,600	1,577,481	1,735,229	1,656,355	1,656,355
Goal 2						
S-L (3)b,c	\$ 73,478	\$ 82,700	\$ 62,220	\$ 60,353	\$ 60,353	\$ 60,353
S-L (3)d (EFNEP)	125,388	55,000	139,320	118,422	124,343	124,343
State R&E	241,508	430,000	567,892	567,892	550,855	550,855
County approps	84,528	(incl in state)	124,300	128,028	128,028	128,028
Grants	245,480	398,000	412,680	453,948	476,645	476,645
Goal 3						
S-L (3)b,c	\$ 6,103	\$ 49,000	\$ 45,500	\$ 44,135	\$ 44,135	\$ 44,135
S-L (3)d (EFNEP)	153,252	222,400	139,320	118,422	124,343	124,343
State R&E	445,134	861,000	513,311	513,311	497,912	497,912
County approps	18,097	(incl in state)	118,000	121,540	121,540	121,540
Grants	484,844	187,936	600,030	660,033	693,035	693,035
Goal 4						
S-L (3)b,c	\$ 245,202	\$ 287,000	\$ 526,400	\$ 510,608	\$ 510,608	\$ 510,608
S-L (3)d	162,974	56,100	193,142	173,828	173,828	173,828
State R&E	1,007,564	1,321,720	1,719,507	1,719,507	1,667,921	1,667,921
County approps	298,560	(incl in state)	309,657	318,947	318,947	318,947
Grants	N/A	691,000	675,600	743,160	780,318	780,318
Goal 5						
S-L (3)b,c	\$ 707,511	\$ 552,720	\$ 869,624	\$ 843,535	\$ 843,535	\$ 843,535
State R&E	2,530,316	1,632,720	2,840,700	2,840,700	2,755,479	2,755,479
County approps	2,118,313	(incl in state)	2,015,700	2,076,171	2,076,171	2,076,171
Grants	N/A	1,496,700	1,962,650	2,158,915	2,266,860	2,266,860

APPENDIX A. Planned Topic Team projects, outputs, and outcomes for 2005-2006.

Goal 1. An agricultural system that is highly competitive in the global economy.

Beef Topic Team

1) Project: Beef Cattle Breeding and Genetics

- **PLANNED OUTPUTS:**
 - ⇒ Beef schools
 - ⇒ Retained ownership programs
 - ⇒ Extension fact sheets
 - ⇒ Cow-Calf Management Guide articles
 - ⇒ Popular press (consumer education) articles
 - ⇒ Faculty training (education) sessions
 - ⇒ Selection demonstrations
 - ⇒ Tours
 - ⇒ Field days
- **EXPECTED OUTCOMES:**
 - ⇒ Producers rewarded for quality cattle
 - ⇒ Increased use of higher quality breeding stock
 - ⇒ Increased ability of producers to gain access to information on the finished product
 - ⇒ Increased awareness of the quality of cattle being marketed
 - ⇒ Increased understanding of EPD's, and other selection tools, and their use in breeding programs
 - ⇒ Increased understanding of carcass information - how it impacts profit and quality of product
 - ⇒ Producers will learn to realistically evaluate their herd and develop a breeding program

2) Project: Beef Cattle Nutrition

- **PLANNED OUTPUTS:**
 - ⇒ Beef schools
 - ⇒ Extension fact sheets
 - ⇒ Cow-Calf Management Guide articles
 - ⇒ Popular press (consumer education) articles
 - ⇒ Faculty training (education) sessions
 - ⇒ Demonstrations on the use of alternative crops as forage sources
 - ⇒ In-service training session
 - ⇒ CD-ROM with information and presentations for UI faculty members
 - ⇒ Ration balancing software for UI faculty members
- **PLANNED OUTCOMES:**
 - ⇒ Increase awareness of the impact of feed costs on overall production efficiency
 - ⇒ Increased understanding of the utilization of nutrients
 - ⇒ Increased understanding of efficient forage utilization
 - ⇒ Increase usage of alternative forage sources for extending the grazing season
 - ⇒ Increased awareness and understanding of ration balancing software

- ⇒ Increased ability to assist producers with cow herd nutrition concerns

3) Project: Beef Cattle Production and Management

- **PLANNED OUTPUTS:**
 - ⇒ Beef schools and workshops
 - ⇒ Retained ownership programs
 - ⇒ Extension fact sheets
 - ⇒ Cow-Calf Management Guide articles
 - ⇒ Popular press (consumer education) articles
 - ⇒ Faculty training (education) sessions
 - ⇒ Field Days
 - ⇒ On farm demonstration trials
- **EXPECTED OUTCOMES:**
 - ⇒ Increased understanding and adoption of individual animal identification technology
 - ⇒ Increased awareness of marketing alternatives
 - ⇒ Increased awareness of the quality of cattle being produced and marketed
 - ⇒ Increased awareness of effective herd health programs
 - ⇒ Adoption of practices to meet current and future environmental regulations
 - ⇒ Adoption of least cost production practices to increase net returns
 - ⇒ Adoption of effective herd health programs

4) Project: Beef Quality Assurance

- **PLANNED OUTPUTS:**
 - ⇒ Standardized BQA training curriculum
 - ⇒ BQA Train the Trainer Workshops
 - ⇒ BQA Certification Workshops
 - ⇒ BQA Curriculum Review and Development Committee
 - ⇒ Beef schools
 - ⇒ Retained ownership programs
 - ⇒ Extension fact sheets
 - ⇒ Cow-Calf Management Guide articles
 - ⇒ Popular press (consumer education) articles
 - ⇒ Faculty training (education) sessions
 - ⇒ Develop and maintain record system for certified trainers and producers
 - ⇒ Develop a state youth BQA program curriculum
 - ⇒ BQA Website / CD-ROM
- **EXPECTED OUTCOMES:**
 - ⇒ Increased awareness of practices that reduce incidence of beef quality and consistency shortfalls as measured by pre and post test of program participants
 - ⇒ Increase in the number of BQA certified producers
 - ⇒ Increased overall awareness of BQA with consumers through the education of youth and their parents who are involved with 4-H and FFA beef projects.
 - ⇒ Producers increased sense of responsibility regarding beef quality
 - ⇒ Increase consumer confidence in beef - wholesome quality product (food safety)
 - ⇒ Development of an Idaho branded product
 - ⇒ Increase number of producers using EPD¹ to develop a breeding program targeted at improved product quality

Bluegrass Systems Topic Team

1) Project: Integrated Residue Management Systems

○ PLANNED OUTPUTS:

- ⇒ Annual summer field tours of Kentucky bluegrass team member's research and demonstration trials that show non-thermal bluegrass management systems that optimize straw decomposition and maintain or increase bluegrass seed yield (annually).
- ⇒ Extension bulletins, CIS publications, refereed journal articles, seminars, workshops, PowerPoint presentations, and news articles on non-thermal Kentucky bluegrass management systems (continuous extension effort).
- ⇒ Establish list serve of parties interested in obtaining Kentucky bluegrass information and notices (dependant on funding).
- ⇒ Mail bluegrass newsletter at least twice a year for notices, announcements, and new information (dependant on funding).
- ⇒ Assist producers in implementing non-thermal Kentucky bluegrass production systems (once suitable resource management alternatives are found).
- ⇒ Assist producers in establishing on-farm, non-thermal Kentucky bluegrass studies (dependant on funding).
- ⇒ Field trials that evaluate non-thermal Kentucky bluegrass management systems that optimize straw decomposition and maintain or increase Kentucky bluegrass seed yield (next 5-7 years).
- ⇒ Field trials that compare nutrient cycling efficiency and soil quality factors in burned and non-burned Kentucky bluegrass systems (next 5-7 years).
- ⇒ Field trials that evaluate herbicide efficacy for suppression of Kentucky bluegrass growth (next 5-7 years).
- ⇒ Field trials that investigate aboveground insect pest and predator relationships in bluegrass systems (next 5-7 years).
- ⇒ Economic analysis of various Kentucky bluegrass management systems (next 5-7 years).
- ⇒ Social and economic cost/benefit analyses of *in situ* decomposition and "bale and burn" straw management practices compared to current open field burning practices (next 5-7 years).

○ EXPECTED OUTCOMES:

- ⇒ UI CALS Bluegrass team members become more aware of extension delivery techniques.
- ⇒ UI CALS Bluegrass team identifies a plan for extension program implementation and technology dissemination.
- ⇒ Increase grower awareness of non-thermal Kentucky bluegrass management options and new extension program.
- ⇒ Improve grower attitude and acceptance of non-thermal or reduced thermal bluegrass production.
- ⇒ Development and adoption of economically and environmentally sustainable Kentucky bluegrass systems that minimize or eliminate the need for open burning of bluegrass fields, while minimizing soil erosion.
- ⇒ Alternative non-thermal or reduced thermal production methods cause litigation related to bluegrass residue burning to stop.
- ⇒ Increase producer attendance and participation at extension programs.
- ⇒ Improved air quality in Kentucky bluegrass growing areas in Washington and northern Idaho.
- ⇒ Gain public approval and support of non-thermal or reduced thermal bluegrass production.

- ⇒ Established bluegrass production methods that reduce soil erosion and improve air quality.
- ⇒ Increase or maintain Kentucky bluegrass production acreage in northern Idaho and the number producers raising bluegrass.

Cereals Topic Team

1) Project: Variety Evaluation

- **PLANNED OUTPUTS:**
 - ⇒ New cereal varieties
 - ⇒ Variety trial data
 - ⇒ Demonstration trials, field tours
 - ⇒ Cereal schools, state-wide
 - ⇒ Websites: <http://Uidaho.edu/cereals/>
 - ⇒ Publications: Progress reports, CIS, Fact Sheets, other
- **EXPECTED OUTCOMES:**
 - ⇒ Growers properly use UI variety trial performance data to select varieties

2) Project: Residue Management

- **PLANNED OUTPUTS:**
 - ⇒ Information on options for residue management (from existing information and newly developed data)
 - ⇒ Demonstration/research plots
 - ⇒ Symposia?
 - ⇒ Cereal schools, state-wide
 - ⇒ Workshops
 - ⇒ Website
 - ⇒ Publications: Progress reports, CIS, Fact Sheets
- **EXPECTED OUTCOMES:**
 - ⇒ Growers have unbiased information on burning and effective alternative residue management options so they can make judicious decisions on burning and residue management

3) Project: Chemical Resistance Management

- **PLANNED OUTPUTS:**
 - ⇒ Information on herbicides and modes of action (Donn Thill)
 - ⇒ Information on herbicide options for each crop (Donn thill)
 - ⇒ Information on herbicide carryover and accompanying risks (Donn Thill)
 - ⇒ Resistance Management Worksheet (Pam Hutchinson)
 - ⇒ Cereal schools, workshops
 - ⇒ A publication unifying this information into one, convenient source
 - ⇒ Website to maintain up-to-date information
- **EXPECTED OUTCOMES:**
 - ⇒ Growers informed of risks and resistance management options so they can make economically and environmentally sound decisions

4) Project: Direct Seeding Priorities

- **PLANNED OUTPUTS:**
 - ⇒ **Demonstration plots, field tours**
 - ⇒ **Cereal schools**
 - ⇒ **Website (Roger Veseth)**
 - ⇒ **New information on direct seeding technology and methods**
 - ⇒ **Publications: Progress reports, CIS, Fact Sheets**
- **EXPECTED OUTCOMES:**
 - ⇒ **Increased grower knowledge of benefits and risks of direct seeding**
 - ⇒ **Increase direct seeding acreage in Idaho**

Dairy Topic Team

1) Project: Reproductive Efficiency

- **PLANNED OUTPUTS:**
 - ⇒ **AI Schools**
 - ⇒ **Synchronization workshops**
 - ⇒ **Field demonstration trial using CIDR's in a breeding program for cows and heifers**
 - ⇒ **Popular press articles**
 - ⇒ **Fact sheet on the benefits of increasing reproductive efficiency**
- **EXPECTED OUTCOMES:**
 - ⇒ **Change in awareness of the benefits of increasing reproductive efficiency**
 - ⇒ **Increase knowledge of manipulation of the estrous cycle, systematic breeding programs, and AI**
 - ⇒ **Change in reproductive management of dairy cattle**
 - ⇒ **Implementation of systematic breeding programs**
 - ⇒ **Increased usage of AI**
 - ⇒ **Increase reproductive efficiency**
 - ⇒ **Decrease (or maintain) annual cull rate Increase dairy farm profitability**

2) Project: Dairy Nutrition

- **PLANNED OUTPUTS:**
 - ⇒ **Assist individual producers by evaluating rations and feeding management**
 - ⇒ **Feeder Schools**
 - ⇒ **Field survey of feeding management practices**
 - ⇒ **Field evaluation of feed sorting on commercial dairy operations**
 - ⇒ **Popular press articles**
- **EXPECTED OUTCOMES:**
 - ⇒ **Change in awareness of feeding management practices and strategies**
 - ⇒ **Increase knowledge of impacts of feeding practices and management on productivity, milk composition, and cow health**
 - ⇒ **Change in feeding practices and management**
 - ⇒ **Change in training on farm dairy labor**
 - ⇒ **Improved dairy rations**
 - ⇒ **Greater productive efficiency**
 - ⇒ **Improved milk components**
 - ⇒ **Enhanced dairy farm profitability**

3) Project: Dairy Biosecurity and Management

- **PLANNED OUTPUTS:**
 - ⇒ Field survey of biosecurity practices on recently expanded dairy operations
 - ⇒ Development of educational materials on biosecurity practices
 - ⇒ Milking schools (English and Spanish versions)
 - ⇒ Calf schools
 - ⇒ Popular press articles
- **EXPECTED OUTCOMES:**
 - ⇒ Change in awareness of biosecurity measures and associated risks
 - ⇒ Change in awareness of proper milking practices
 - ⇒ Increased understanding of the importance of milk quality
 - ⇒ Change in awareness of proper calf rearing techniques and their associated impacts on calf survival, health, and growth.
 - ⇒ Adoption of appropriate biosecurity measures during herd expansion
 - ⇒ Adoption of appropriate milking practices to minimize mastitis and maintain (or enhance) milk quality
 - ⇒ Adoption of appropriate calf rearing practices to minimize calf disease and enhance calf growth
 - ⇒ Greater productive efficiency and enhanced farm profitability
 - ⇒ Reduced risk of disease following a herd expansion
 - ⇒ Improved milk quality

4) Project: Dairy Facilities

- **PLANNED OUTPUTS:**
 - ⇒ Summarize study comparing cow preference between sand based free-stalls with and without Sand savers (Sand Traps and Agri-web)
 - ⇒ Conduct study comparing cow preference between sand based free-stalls with and without added straw during the winter months
 - ⇒ Popular press articles
 - ⇒ Prepare abstract for Annual American Dairy Science Association meeting
- **EXPECTED OUTCOMES:**
 - ⇒ Increased awareness of cow comfort on Idaho dairies with free-stalls
 - ⇒ Increased knowledge of impacts of cow comfort on productivity and cow health
 - ⇒ Change in maintenance of free-stall beds
 - ⇒ Change in free-stall dividers to improve cow comfort
 - ⇒ Increased adoption of sand bedding and sand saving devices
 - ⇒ Improved milk production
 - ⇒ Improved milk quality and lower somatic cell counts
 - ⇒ Improved hoof health
 - ⇒ Reduced bedding costs due to sand savings
 - ⇒ Enhanced dairy farm profitability

5) Project: Dairy Youth Education

- **PLANNED OUTPUTS:**
 - ⇒ Provide workshops, tour and field days for 4-H and FFA youth
- **EXPECTED OUTCOMES:**
 - ⇒ Increased understanding of the dairy industry by participating youth and parents

1) **Project: Business Management**

- **PLANNED OUTPUTS:**
 - ⇒ Resource materials developed: written publications, videotapes, CD's, computer programs, press releases
 - ⇒ Internet web site for distribution of resource material
 - ⇒ Workshops and seminars conducted
 - ⇒ The number of participants at workshops and seminars
 - ⇒ Direct contact with clientele
- **EXPECTED OUTCOMES:**
 - ⇒ increased understanding of issues, management practices or marketing tools
 - ⇒ increased understanding of a specific commodity market or niche market
 - ⇒ increased utilization of specific management or marketing practices
 - ⇒ increased understanding of their financial situation and performance
 - ⇒ evaluate alternative risk management strategies
 - ⇒ increased awareness of the need for business analysis at the production level

Forages Topic Team

1) **Project: Alfalfa Yield and Quality**

- **PLANNED OUTPUTS:**
 - ⇒ CIS on Certified Hay Production and Marketing
 - ⇒ Bulletin: Alfalfa Hay for Horses, funded by the National Alfalfa Alliance
 - ⇒ Alfalfa variety trial reports with forage yield, quality, and stand persistence data
Provide information on alternatives of forage production during water deficits
Work with Ag Stats to clarify hay reporting numbers
 - ⇒ Launch Idaho Forage Web Site
 - ⇒ Publication of the Idaho Forage Handbook, revision of Bulletin 547
 - ⇒ Workshops, seminars, short-courses
 - ⇒ Idaho Alfalfa and Forage Conference
 - ⇒ SE Idaho Forage Workshop
 - ⇒ East Idaho Forage Workshop
 - ⇒ Blaine/Camas Forage Workshop
 - ⇒ A more accurate forage quality test
 - ⇒ A database of alfalfa yield and quality at weekly intervals for representative environments (elevations) throughout southern Idaho
 - ⇒ A refereed journal article giving alfalfa yield and quality as a function of time and climatic variables such as temperatures, then CIS publication
 - ⇒ A journal article: Alfalfa Yield and Quality as Affected by Dairy Compost
- **EXPECTED OUTCOMES:**
 - ⇒ Producers will understand principles of irrigation scheduling, species selection information, and optimizing water use efficiency for alfalfa and other forages. Evaluate with pre- & post tests
 - ⇒ Researchers and agronomists will have the following information readily available in written form:
 - > Alfalfa yield and quality as functions of time for several environments and climatic variables
 - > A database of alfalfa yield and quality with associated climatic variables
 - > Information on adaptability of new methods of forage quality analysis

- ⇒ **Growers will increase their economic return/acre by having decision aides for determining the profitability of marketing supreme (dairy quality) forage at a given price, or harvesting and marketing for feeder quality hay**
 - > **Growers will understand the changes in alfalfa yield and quality with time and environments**
 - > **Growers will have access to information and tools to predict profitability given the price incentives for dairy quality hay or the yield incentive for producing feeder quality hay**
- ⇒ **Forage testing labs, nutritionists, and growers will have more accurate and equitable forage testing methods**
 - > **Dairy and beef producers will be more able to match suitable forages to the animals, thus reducing costs**
 - > **Forage producers will be fairly compensated**
- ⇒ **Industry representatives, growers, and extension educators will have access to information from alfalfa variety trials in several representative areas of Idaho**
 - > **Knowledge of alfalfa varieties will motivate producers to use better plant materials than at present. This will result in a higher level of forage management which will allow the forage producer to sustain a more profitable enterprise with higher yield and quality; and the forage purchaser will be able to use high quality forage to maintain production and minimize nutrient importation**
 - > **Higher alfalfa production efficiency will result in a more sustainable agriculture practices, and promote a more positive perception of agriculture by those implementing policy, regulatory agencies, and the public.**

2) Project: Annual Forage Production

- **PLANNED OUTPUTS:**
 - ⇒ **Demonstration and research trials for annual forage variety trial, double cropping systems and corn silage**
 - ⇒ **CIS publications on production, management, and economics**
 - ⇒ **Enterprise budgets for crop production and economic data on crop production**
 - ⇒ **Corn production handbook for Idaho**
 - ⇒ **Corn Harvest Alternatives publication**
 - ⇒ **Update previous University of Idaho corn publications**
 - ⇒ **Local and state workshops, seminars, field tours, short-courses on annual forage production**
 - ⇒ **Impact surveys**
 - ⇒ **2004 Forage Symposium (2 days)**
 - ⇒ **2006 Northwest Regional Annual Forage and Silage Conference (3 days)**
- **EXPECTED OUTCOMES:**
 - ⇒ **Understand how annual forage quality changes with maturity and will harvest at the appropriate time**
 - ⇒ **Understand pest problems in annual forages and manage pests in an economically and environmentally sound manner**
 - ⇒ **Consider new cropping systems using annual forages.**
 - ⇒ **Contemplate cropping systems with corn for silage under-seeded with annual forage for fall grazing.**
 - ⇒ **Have access to information on the cost of production and economic returns from all double cropping systems**
 - ⇒ **Understand the benefits of nutrient cycling with double cropping systems**
 - ⇒ **Recognize how dry matter loss, cut length, and packing impact silage quality**

- ⇒ Have access to locally produced information on varieties and varieties for short growing season conditions.
- ⇒ Increase economic return per acre by use of annual forages and double cropping or by producing high quality corn silage.
- ⇒ Increase their understanding of the ecosystem, resource conservation, and nutrient recycling benefits of producing annual forages
- ⇒ Improve their long-term sustainability of cropping and livestock systems
- ⇒ Understand the processes of more efficient nutrient cycling
- ⇒ Increase the use of annual forages in cropping systems
- ⇒ Have the potential to increase their economic return per acre by using annual forages or double cropping

3) Project: Pasture Management

○ PLANNED OUTPUTS:

- ⇒ development of a curriculum package that presents a coordinated and consistent set of concepts for domestic pasture management under Idaho conditions. The package will include presentations with a consistent format, as well as materials to assist educators in planning, promoting, presenting and evaluating MiG workshops from ½ day introductory programs to 4-day field workshops.
- ⇒ present a 4-day hands-on MiG workshop in June at the Nancy M. Cummings Research Extension and Education Center. The program will be based on existing curriculum development and previous workshops. The program will accommodate approximately 20 participants. An additional 4-day workshop(s) and shorter presentation may be presented as interest and resources are available.
- ⇒ pasture management classes
- ⇒ plant material with at least one ½ day tour.
- ⇒ multi-session twelve hours pasture management classes classes.
- ⇒ Develop a comprehensive grant proposal to support research and demonstration project on the NMCREEC to investigate the practicality of early summer calving, stockpiling and other methods to match animal nutrient needs to available feed resources at the lowest possible cost
- ⇒ Implement ranch scale power fencing demonstration(s) (NMREEC)
- ⇒ Beginning development of a "summer calving" herd (NMCREEC) to research energy sensitive management
- ⇒ Web site with links to other related grazing sites
- ⇒ Web site with listing of resources
- ⇒ Physical archive/library for MiG related grazing related research and extension materials
- ⇒ Publication on paper and on the web site of literature search related to grazing systems
- ⇒ List server that permits experienced and novice MiG practitioners to interact over long distances.
- ⇒ Pasture walks (tours) on novice and established practitioner's operations to assist operators in developing innovative ways of solving grazing problems.
- ⇒ Ranch scale livestock water development demonstration(s)
- ⇒ Ranch scale comparison of conventional management to energy sensitive management
- ⇒ Research/demonstrations into alternative methods of wintering including annual and perennial pasture and crops for stock piling and alternative calving seasons to match grazing energy resources to livestock nutrient demands with a minimum of mechanically harvested feed.

- ⇒ Demonstrations of improved nutrient cycling from MiG managed pastures vs. continuous use
- ⇒ Produce popular articles, CIS's, bulletins and other literature describing management techniques and outlining reasonable expectations for pasture performance.
- **EXPECTED OUTCOMES:**
 - ⇒ Extension educators and other professionals with less irrigated pasture experience will be able to organize and present pasture management workshops, or effectively assist more experienced personnel in presenting workshops throughout Idaho.
 - ⇒ At least 20 operators will have a new perspective on integrated grazing management, and a greater appreciation of physiological and ecological principles related to grazing management and livestock production and will apply these principles to their specific farm or ranching operation.
 - ⇒ Resource professionals and grazers will have access to available information to prevent duplication of research, extension and education efforts.
 - ⇒ New MiG practitioners will persist and flourish.
 - ⇒ Potential and new practitioners will have a greater appreciation and understanding of the economic and ecological challenges and rewards of MiG

Potatoes Topic Team

1) Project: Pest Management (Potatoes)

- **PLANNED OUTPUTS:**
 - ⇒ Train growers, industry field staff and consultants about potato IPM principles and practices via workshops and seminars at the University of Idaho Potato Conference, the Idaho Crop Production Association Conference and other state and local meetings; seasonally offer in-the-field clinics to provide hands-on training.
 - ⇒ Evaluate and demonstrate new IPM technologies and strategies.
 - ⇒ Update written bulletins and write popular articles and newsletters.
 - ⇒ Improve on-line delivery pest management information by enhancing the informational content the University of Idaho Pest Management Center (www.ag.uidaho.edu/pmc), a virtual information center developed through the Pest Management Center grants program to bring together at one site the breadth of our educational resources that deal with pests, pesticides, and pest control.
 - ⇒ Scout and alert growers of potato pest and possible control solutions.
 - ⇒ Develop a web site to post information with modules on how to avoid development of fungicide resistance, selection of proper disease management practices, and identification of potato pathogens.
 - ⇒ A potato pest-scouting program has been established to investigate potato fields during the growing season (approximately 90 fields each year) and record disease occurrence and severity, with disease samples being submitted by scouts, or directly by growers, for identification or confirmation of disease problems.
 - ⇒ Provide information to growers by phone, fax service, and a toll-free hotline.
 - ⇒ Present information on spraying peach trees for managing green peach aphids.
 - ⇒ Other work that may be included in this plan is developed in part by priorities identified in the *Pest Management Strategic Plan for Pacific Northwest Potato Production*, a plan conceived by a regional working group in February 2002. Specific priorities were the following:

Research

- > Develop alternatives to chemical control: resistant varieties, cover crops, crop rotations, IPM research that includes green manure / cover crops, biological control (efficacy, agronomics, economics).
- > Investigate pesticide resistance management including development of new substitution chemistries to combat resistance.
- > Develop reliable sampling methods for detection of pests and establish accurate action threshold levels.
- > Develop comprehensive pest-predictive modeling systems.
- > Influence the development of new chemistries as needed.
- > Continue research and education on genetically modified organisms (GMOs).
- > Continue plant breeding programs for disease and pest resistance.
- > Study the biology of weeds, diseases, insects, and nematodes and their interactions in the potato cropping system.
- > Investigate pesticide impact on beneficial and other non-target organisms.
- > Address seed quality and seed-transmissible disease issues.

Education

- > Increase proactive public education to raise consumer confidence about safe pesticide use by potato growers in the United States and point out potential risks of imported potatoes / potato products grown under different regulatory standards.
- > Educate consumers about benefits of genetically modified organisms (GMOs).
- > Create an on-line clearinghouse for research data.
- > Increase interdisciplinary pesticide resistance management education for growers, crop advisors, and regulators.
- > Educate growers about importance and methods of scouting and economic thresholds.
- > Develop forecast prediction modeling and pest identification for web-based access by growers, consultants, and extension and research personnel.
- > Educate consumers about potential potato pests.

○ EXPECTED OUTCOMES:

- ⇒ **Our programming goal is to accelerate adoption of cost-effective, "least-toxic" biointensive IPM tactics and strategies. For consistency with objectives established by USDA-CSREES for national programming in integrated pest management, we adopt in Idaho as the minimum indicators of impact the following CSREES measures:**
 - > **Indicator 1.1: Number of production units (acres) using IPM**
 - > **Indicator 3.2: IPM educational materials delivered (i.e., CIS and bulletins, web pages, software, popular articles, newsletters and related materials)**
 - > **Indicator 3.4: Producers trained**
 - > **Indicator 3.5: Private sector personnel trained**
 - > **Indicator 4.1: Public events involving collaborations (i.e., conferences, workshops, field days and related outreach)**
- ⇒ **Growers will implement control practices when problems are brought to their attention.**
- ⇒ **Growers will wisely use strobilurin fungicides so that resistance is not gained through over use of this class of fungicides.**
- ⇒ **Potato producers will improve their disease management practices from an economic and environmental standpoint. This will be measured by monitoring disease management practices. Information on disease management practices**

is obtained from a sample of potato producers each year through the disease-scouting program.

- ⇒ Number of fungicide applications per year will decline.
- ⇒ Growers will reduce the cost associated with fungicide applications.
- ⇒ Decrease green peach aphid populations in potato fields and decrease use of insecticides.

2) Project: Potato Production

○ PLANNED OUTPUTS:

- ⇒ Write bulletins or revise bulletins on the following potato topics:
 - > fertility management
 - > drought management
 - > managing new varieties
 - > remote sensing to increase production and irrigation efficiency
 - > costs and returns estimates
 - > best management practices
 - > cropping systems and rotations
- ⇒ Make information available on a web site on numerous production-related topics.
- ⇒ Conduct workshops, seminars, field days, or short courses for producers addressing producer-related potato production, harvest, storage, and economics.
- ⇒ Alert growers via various methods, including Internet, of potato problems and provide information on possible solutions to these problems.
- ⇒ Write and publish information on various topics in newsletters, newspapers, and trade magazines.
- ⇒ Conduct an annual University of Idaho Potato Conference
- ⇒ Conduct workshops, seminars, and field days.
- ⇒ Teach workshops to Spanish-speaking clientele on various aspects of potato production.

○ EXPECTED OUTCOMES:

- ⇒ Producers and others will have increased knowledge about the optimum use of fertilizer in Idaho potato production systems.
- ⇒ Producers and others will have information of how to better manage water for potato production.
- ⇒ Producers and others will be better informed on managing new varieties.
- ⇒ Producers and others will have access to information on cropping systems and how cropping systems affect potato production.
- ⇒ Producers and others will obtain information that will help them increase production efficiency by using properly planted certified seed and using best management practices.
- ⇒ Producers and others attending economic-related workshop will learn how to better manage their farm business.
- ⇒ The Idaho potato industry will develop and use cost of production estimates to evaluate production, financial, and marketing management decisions.
- ⇒ Producers and others will have access to and use information that helps them harvest quality potato tubers.
- ⇒ Producers and others will have access to information to help them make storage management decisions to maintain crop quality.
- ⇒ Spanish-speaking clientele will have a greater understanding of topics discussed and be better informed when making decisions.

3) Project: Aquaculture Industry Profile in Idaho

- **PLANNED OUTPUTS: INDUSTRY PROFILE TO INCLUDE:**
 - ⇒ **Characteristics of the industry.**
 - > **Size, location and scope of the trout industry**
 - **Geographic areas of production**
 - **Crop value data by state**
 - > **Market information**
 - **Crop pricing mechanisms and methods**
 - **Demand information**
 - **Stocking, harvesting, and price information for various life cycle stages in production**
 - > **Aggregate supply information**
 - > **Characteristics of production approaches by area**
 - > **Trade situations**
 - > **Market growth expectations by producers**
 - > **Trout marketing processes**
 - ⇒ **Descriptions of alternative production systems.**
 - > **Culture practices used at each stage in the trout life cycle**
 - > **Descriptions of production facilities and equipment**
 - > **Characterization of production cycle timing and input sequences**
 - > **Identification of input costs and cash flows, including fixed costs.**
 - > **Identification of loss control techniques**
 - > **Summary of state and federal regulations affecting trout production.**
 - > **Trends in production and average yield**
 - ⇒ **Report to Idaho Aquaculture Industry**
 - > **Report to industry outlining opportunities they have for expansion through better business management**
- **EXPECTED OUTCOMES:**
 - ⇒ **The industry profile should allow the risk management experts to determine the feasibility of developing risk management products for trout growers.**
 - ⇒ **Information used by extension to better meet the needs of the industry and to identify information gaps where additional research is needed.**
 - ⇒ **Industry has greater understanding of the factors affecting profitability and market competitiveness.**
 - ⇒ **Information used in educational programs and communicated through various publications.**

4) Project: Extension Sheep Production Education

- **PLANNED OUTPUTS:**
 - ⇒ **Providing all county offices with resources that producers need, including SID Handbook, 4H Sheep Resource Handbook, Farming on a Few Acres (CD), National Research Council, "Sheep Nutrition Guidelines".**
 - ⇒ **Listing of information sources on the web that can be given to producers on specific problems.**
 - ⇒ **Publish the results of alternative forage data and possible use of these forages for sheep.**
- **EXPECTED OUTCOMES:**
 - ⇒ **Extension educators increase their ability to provide up to date valuable information and education to producers of sheep. As their ability improves so do the requests for high quality education.**

5) Project: Extension Swine Production Education

- **PLANNED OUTPUTS:**
 - ⇒ Providing all county offices with resources that producers need, including Pork Industry Handbook, 4H Swine Resource Handbook, Farming on a Few Acres (CD), National Research Council Nutrition Guidelines.
 - ⇒ Listing of information sources on the web that can be given to producers on specific problems.
 - ⇒ Ultrasound evaluation of breeding livestock and ultrasound evaluation of market animals used in the 4H program.

6) Project: General Aquaculture Education

- **PLANNED OUTPUTS:**
 - ⇒ Classroom education of aquaculture
 - ⇒ Classes in small pond aquaculture (water gardens)
 - ⇒ Producer workshops in fish health management and prevention
 - ⇒ Risk management assessment for producers
 - ⇒ EPA permit evaluation system and compliance
- **EXPECTED OUTCOMES:**
 - ⇒ Fewer problems with *back yard* ponds
 - ⇒ Development of risk management options for aquaculture
 - ⇒ Greater understanding and fewer compliance problems in the EPA permit process and improved effluent water quality
 - ⇒ Greater understanding of the role that water quality plays in all of Idaho

7) Project: Horse Education

- **PLANNED OUTPUTS:**
 - ⇒ Provide all county 4-H leaders with up to date resources that can be taught to 4-H members so they can develop competent horsemanship skills.
 - ⇒ Encourage 4-H members to complete their projects.
 - ⇒ Involve more 4-H members in the horse judging, horse bowl, horse demonstration and public speaking contests.
 - ⇒ Provide 4-H horsemanship clinics, classes, field days, and shows.
- **EXPECTED OUTCOMES:**
 - ⇒ Extension educators have an increased ability to provide up to date information and education to 4-H horse leaders and the horse industry.
 - ⇒ Increased knowledge of horse care and growth of the industry in Idaho.

8) Project: Youth Market Quality Assurance

- **PLANNED OUTPUTS:**
 - ⇒ Standardized Sheep and Pork Quality Assurance training curriculum
 - ⇒ Sheep and Pork QA Train the Trainer Workshops
 - ⇒ Faculty training (education) sessions
 - ⇒ Develop a state youth Sheep QA program curriculum
 - ⇒ Adopt and implement Pork QA program
- **EXPECTED OUTCOMES:**
 - ⇒ Increased awareness of practices that reduce incidence of quality and consistency shortfalls from sheep and pork carcass measured by pre and post test of program participants
 - ⇒ Increase in the number of Sheep and Swine QA trained youth in the 4-H and FFA programs

- ⇒ Increased overall awareness of QA with consumers through the education of youth and their parents who are involved with 4-H and FFA sheep and pork projects.

Small Acreages Topic Team

1) Project: Agricultural Entrepreneurs

○ **PLANNED OUTPUTS:**

- ⇒ Deliver three (3) small farm conferences around the state: North Idaho, SW Idaho in November 2003 and in SE Idaho in Feb. 2004.
- ⇒ Continue to augment and maintain the UI CALS web site for Idaho small acreage farmers.
- ⇒ Compile on-line conference proceedings for all three conferences to be on the UI CALS Small Farms web page.
- ⇒ Teach courses on agricultural entrepreneurship: Nx Level's Tilling the Soil of Opportunity will be offered in Kamiah in January 2004, on campus in Moscow in spring 2004, and in Plummer in fall 2004.
- ⇒ Teach courses on Sustainable Small Acreage Farming and Ranching: Fall 2003 Moscow videoconferencing to Sandpoint and Twin Falls and fall 2004 from Moscow to Sandpoint.
- ⇒ Hold a SARE Professional Development workshop in Southern Idaho to train potential instructors about the Cultivating Success program.
- ⇒ Farmer's Market vendor training and market development will occur in Benewah County.
- ⇒ Display posters featuring value added and marketing niches will be set up at commodity meetings in District III.
- ⇒ Display poster on Sustainable Agriculture/Small Acreage Programs at legislative session.
- ⇒ Develop broader and more inclusive mailing list for Small Farm News and Views newsletter.
- ⇒ Develop another Small Farm News and Views newsletter to be distributed to interested clients throughout Idaho. This year will also send to NRCS, Ag businesses, County Commissioners, decision makers, and any possible partners.
- ⇒ Continue to develop and release a small acreage case study video on poultry and lamb production in 2004.
- ⇒ Publish case studies of successful Idaho small acreage farmers (at least 2 publications).
- ⇒ Host a conference in Sandpoint in November of 2004 to highlight economic models of foods systems researched as a part of tri-state farm direct marketing project with Rural Roots.
- ⇒ Improve publicity and distribution of new Ag Econ publication on pastured poultry developed by Bob Smathers and Janie Burns.
- ⇒ Work with Ag Econ and producers to develop additional enterprise budgets for small acreage producers.
- ⇒ Continue to market University of Idaho small farm resources (Public TV coverage; newspaper releases, etc.)

○ **EXPECTED OUTCOMES:**

- ⇒ Small acreage landowners in Idaho will increase problem solving/decision making skills related agricultural enterprises.
- ⇒ Small acreage landowners in Idaho will increase their awareness of enterprise opportunities in agriculture, natural resources, and value added products.

- ⇒ Small acreage landowners/farmers learn ways to conserve their land and water resources.
- ⇒ Small acreage landowners in Idaho will increase knowledge to develop skills in enterprise analysis, strategic planning, conducting feasibility studies, enterprise budgeting, and selecting appropriate equipment/facilities.
- ⇒ Beginning farmers develop more defined business goals based on sound research of potential crops and markets.
- ⇒ More farmers adopt sustainable practices after attending extension programs.
- ⇒ Engaged farmers/landowners volunteer their time to help others learn how to farm profitably and conserve their natural resources.

2) Project: Emerging Specialty Crops

- **PLANNED OUTPUTS:**
 - ⇒ Develop UI publication on Raspberry/Strawberry demonstration plots. Information will be put on UI sustainable ag web site. A referred journal article will be developed and a poster at legislative session on program is planned.
 - ⇒ The blueberry project in District III is in the final year in 2004. Will develop informational piece in 2005.
 - ⇒ Continue research and publicity related to domestic huckleberry production at Sandpoint R&E Center.
- **EXPECTED OUTCOMES:**
 - ⇒ Farmers will become aware of UI (and other) resources supporting small acreage farming.
 - ⇒ Farmers learn about new or alternative crop production strategies and marketing opportunities.
 - ⇒ Small acreage landowners in Idaho will increase their awareness of enterprise opportunities in agriculture, natural resources, and value added products.
 - ⇒ Small acreage landowners/farmers learn ways to conserve their land and water resources.

3) Project: Small Acreage Landowners

- **PLANNED OUTPUTS:**
 - ⇒ Conduct sixteen week *Living on the Land* program; Jan. - May 2004; Boise and Caldwell.
 - ⇒ Develop partnerships for a *Living on the Land* Program in District III
 - ⇒ Offer "modified" *Living on the Land* in District IV in 2004.
 - ⇒ Offer the pasture management part of *Living on the Land* in two locations in District I. Write and distribute press releases; include articles in county or district newsletters.
- **EXPECTED OUTCOMES:**
 - ⇒ Increase awareness and knowledge of non-agricultural landowners about the necessity of proper resource management for the long-term health benefit of their land and animals.
 - ⇒ Increase the skill level of non-agricultural landowners in assessing their own resources, identifying problem areas and possible solutions.
 - ⇒ Increase the knowledge and skill level of local feed store operators in their ability to provide assistance to non-agricultural landowners with the proper management of their resources (water, soil, plants and animals).
 - ⇒ Increase the number of non-agricultural landowners who are adopting practices of soil testing, water management, proper grass management, proper stocking rates, fire prevention by fuels reduction, etc.

- ⇒ Increase the number of feed suppliers who are providing effective/accurate assistance and information on proper resource management to non-ag landowners.
- ⇒ More small acreage landowners in Idaho are properly managing their water, soil and plant resources resulting in better water quality (of a local drainage, tributary), healthier pastures, less weed populations, healthier animals and reduced risk of wildfire.

Sugar Beets Topic Team

1) Project: Crop Production

- **PLANNED OUTPUTS:**
 - ⇒ Publications
 - ⇒ Sugarbeet web page
 - ⇒ Workshops
 - ⇒ Field demonstrations and field days
 - ⇒ Snake River Sugarbeet Conference presentations
 - ⇒ Direct contacts
- **EXPECTED OUTCOMES:**
 - ⇒ Better understanding and increased use of recommended crop production principles.

2) Project: Sugarbeet Production Guide

- **PLANNED OUTPUTS:**
 - ⇒ Production guide (printable online form)
 - ⇒ CD ROM
 - ⇒ Sugarbeet web page
- **EXPECTED OUTCOMES:**
 - ⇒ Improved grower access and awareness to sustainable sugarbeet production practices information
 - ⇒ The adoption of cost effective Best Management Practices

3) Project: Water Management/Quantity

- **PLANNED OUTPUTS:**
 - ⇒ Workshops
 - ⇒ Field demonstrations and field days
 - ⇒ Publications
 - ⇒ Snake River Sugarbeet Conference presentations
 - ⇒ Direct contact
- **EXPECTED OUTCOMES:**
 - ⇒ Increased irrigation efficiency
 - ⇒ Reduced disease incidence, leaching and erosion
 - ⇒ Influence decisions made by water managers
 - ⇒ Increased awareness of growers through new technology used in sugarbeet production
 - ⇒ Increased production efficiency
 - ⇒ Improved soil physical properties

Goal 2. A safe and secure food and fiber system

A. Food Safety Topic Team

1) **Project: Answering Food Safety Questions**

- **PLANNED OUTPUTS:**
 - ⇒ Educators and volunteers will use each "teachable moment" when a consumer calls with a question to disseminate current researched-based information.
- **EXPECTED OUTCOMES:**
 - ⇒ While it is difficult to measure the impact of answering food safety telephone and in-person questions, consumers are highly motivated to learn something new about the topic. They will also gain an awareness and understanding of food safety practices; they will improve food-handling skills and believe their actions can result in a reduction in their home of food safety problems.
 - ⇒ Consumers will improve food-handling practices as a result of their inquiry.
 - ⇒ Consumers will experience less illness from foodborne pathogens or improperly handled food. They will also improve economic benefits through less spoilage of food.

2) **Project: Consumer Food Safety Programs**

- **PLANNED OUTPUTS:**
 - ⇒ Classes/program on specific food safety topics:
 - ⇒ Articles in local/regional newspapers and extension newsletters on specific food safety issues:
 - ⇒ Sale of extension bulletins on food safety and food preservation:
 - ⇒ Canner pressure gauge testing:
- **EXPECTED OUTCOMES:**
 - ⇒ Food safety presentations raise the awareness of safe food handling methods for target audiences.
 - ⇒ Class and workshop participants indicate an increased knowledge of food safety and food preservation.
 - ⇒ An increase in the number of home pressure canner gauges tested indicate that consumers are aware of the need for accurate equipment when they are preserving food at home.
 - ⇒ Reduced food borne illness.
 - ⇒ Increased confidence in food handling and in the safety of the U.S. food supply.

3) **Project: Food Industry Assistance**

- **PLANNED OUTPUTS:**
 - ⇒ HACCP Training and Industry Assistance. Continue to deliver general food safety and HACCP (Hazard Analysis Critical Control Points) workshops and specific food safety consulting (including on-site HACCP training, prerequisite programs training, preparation for food safety inspections and general food safety information) to the Idaho food processing industry.
 - ⇒ Continue to offer the course, *Developing Your Food Product Idea*, to interested individuals.
 - ⇒ Provide on-going consultation to small food entrepreneurs as issues arise. Food safety questions concerning low acid foods, shelf life, labeling, allergens, meat safety, dairy products, and other issues will be answered on an as-needed basis through office visits, phone consultation, and emailed responses.

- ⇒ Support the Idaho Department of Health and Welfare and individual health districts in resolving complex food safety issues.
- ⇒ Food Safety Training for Entrepreneurs. A third conference is planned for Idaho Falls in February 2004.
- EXPECTED OUTCOMES:
 - ⇒ Entrepreneurs understand food safety principles and regulations as they apply to their own businesses.
 - ⇒ Successful food processors producing safe foods.

4) Project: Food Safety Advisor/Master Food Preserver

- PLANNED OUTPUTS:
 - ⇒ FSA/MFP volunteers with up-to-date knowledge of food safety shared with community members
 - ⇒ FSA/MFP volunteers share expertise in communities in a variety of ways including: answering consumer calls, providing written materials as requested, teaching classes for community organizations, preparing and manning educational displays and information booths, surveying clientele on home food preservation methods, and assisting with awareness and service activities such as pressure canner gauge testing and county fair open class food preservation class judging.
- EXPECTED OUTCOMES:
 - ⇒ FSA/MFP volunteers will "extend" the food safety education available through UI Extension in Idaho communities.
 - ⇒ Consumers and families will receive current and reliable food safety information in timely manner, in response to questions.
 - ⇒ Inexperienced home food preservers will benefit by learning about UI Extension and the resources available.
 - ⇒ UI Extension educators will be able to focus on other priority programming efforts, utilizing the cadre of trained volunteers to answer food safety and food preservation questions in their communities.
 - ⇒ More families will have a basic understanding of the food safety issues related to home food preservation.
 - ⇒ More home food preservers will be able to produce safe, high quality foods for their families.
 - ⇒ The incidence of foodborne illness related to food prepared at home will drop due to the increased knowledge base of home food preservers.
 - ⇒ The number of home food preservers with knowledge of safe food handling, preserving and storing practices will increase.

5) Project: Food Service Food Safety Training

- PLANNED OUTPUTS:
 - ⇒ Teach Practical Food Safety for Food Service Supervisors workshops in Districts II and III.
 - ⇒ Teach the Ready, Set, Food Safe curriculum in FCS classes throughout the state.
- EXPECTED OUTCOMES:
 - ⇒ Increased knowledge of food service food safety principles.
 - ⇒ Increased use of correct safe food handling behaviors in Idaho food service establishments.
 - ⇒ Reduce the number of food borne illnesses resulting from improper handling in food establishments.

6) Project: Germ City Hand Washing Project

- **PLANNED OUTPUTS:**
 - ⇒ Delivery of *Germ City* Program in Schools.
 - ⇒ Delivery of *Germ City* Program at County Fairs and Health Fairs.
- **EXPECTED OUTCOMES:**
 - ⇒ Children and families participating in the program will have a clearer understanding of the role adequate hand washing done at appropriate times has in personal health and will practice this behavior.
 - ⇒ Less sick days away from school.
 - ⇒ Improved health: less colds, flu, and food borne illness because transfer of pathogenic organisms is reduced due to improved hand washing.

7) Project: Pesticide Use/Organic Foods

- **PLANNED OUTPUTS:**
 - ⇒ production of an educational packet regarding food safety, the use of pesticides, the safeguards built into the pesticide registration process and organic production.
- **EXPECTED OUTCOMES:**
 - ⇒ Extension Educators and volunteers provide fact-based, scientific information to the public, regarding safe food, and safe, judicious use of pesticides to supply a plentiful and safe food supply.

8) Project: ENP/EFNEP Food Safety

- **PLANNED OUTPUTS:**
 - ⇒ Extension Nutrition Program (ENP)
 - > ENP clients receive ~ 6-10 lessons taught by Nutrition Advisors on specific food safety topics.
 - > Articles written in District ENP newsletters, some specifically on food safety issues.
 - ⇒ Idaho's Expanded Food and Nutrition Education Program (EFNEP)
 - > EFNEP clients receive a minimum for 6 lessons taught by Nutrition Advisors.
 - > Bi-monthly staff trainings occur in both Districts for Nutrition Advisors.
 - > Articles written for newsletters, some specifically on food safety issues.
- **EXPECTED OUTCOMES:**
 - ⇒ Increase knowledge of food safety principles and increase behavior changes regarding safe food handling practices.
 - ⇒ Reduced food borne illness.

Goal 3. A healthy, well nourished population

A. Health and Nutrition Topic Team

1) Project: Diabetes

- **PLANNED OUTPUTS:**
 - ⇒ Individuals in Idaho will receive diabetes education through Extension by attending a series of 4 classes or one class overview of diabetes or through a diabetes support group.

- ⇒ Individuals will attend a one-time session that provides an overview of diabetes or will participate in The Healthy Diabetes Plate or Healthy Eating with Diabetes. Both curricula discuss the importance of controlling diabetes, planning meals using the Idaho Plate Method, incorporating recipes, eating out, and resources available to the participants.
- **EXPECTED OUTCOMES:**
 - ⇒ *Healthy Eating with Diabetes:* It is expected that participants who complete these classes will:
 - > be familiar with the American Diabetes Association's Standards of Care
 - > use the Standards of Care Cards when seeing their physician
 - > be aware of the complications associated with diabetes
 - > be aware of nutrition practices that raise and lower blood cholesterol
 - > eat a lower fat diet
 - > be more confident about buying groceries
 - > increase their consumption of fruits and vegetables
 - > be knowledgeable about diabetes
 - > use the Idaho Plate Method to help plan their meals
 - > encourage other people to take these classes.
 - ⇒ *The Healthy Diabetes Plate:* It is expected that participants who complete these classes will have:
 - > An increase in knowledge. Participants will be able to plan meals correctly using a variety of methods.
 - > A change in eating behaviors. A pre/post eating habits survey will be conducted. It is expected that participants will increase their whole grain, fruit, vegetables and milk consumption.
 - > A baseline determination of self-care measures. Participants will participate more fully in diabetes self-management, including receiving a flu shot, checking blood sugar levels, having an eye exam, having a foot exam, and having a hemoglobin A1C test at least yearly.
 - ⇒ It is expected that information about these classes will appear in local newspaper articles will be promoted by health departments, health care professionals and support groups.

2) Project: Dietary Guidelines

- **PLANNED OUTPUTS:**
 - ⇒ Team members will teach classes on various aspects of the Dietary Guidelines 2000, which include the following:
 - > Aim for Fitness
 - > Build a Healthy Base
 - > Choose Sensibly
- **EXPECTED OUTCOMES:**
 - ⇒ It is expected that participants in the classes will increase their knowledge of the Dietary Guidelines for Americans and their skills in choosing a diet that closely meets the guidelines.

3) Project: Expanded Food and Nutrition Education Program (EFNEP)

- **PLANNED OUTPUTS:**
 - ⇒ Paraprofessionals teach curriculum that includes lessons about 1) nutrition, 2) food safety, 3) resource management 4) meal planning and food buying. Families are taught and graduate from the program. Many minority families are taught, including Hispanics, American Indians, black and Asian families. In FY02, 25 percent of the total participants were minorities.

- **EXPECTED OUTCOMES:**
 - ⇒ It is expected that EFNEP graduates will have a positive change in intake of at least one of the five food groups based on Twenty-four Hour Food Recalls taken at entry and at exit. It is also expected that participants will show an improvement in food resource management practices, in nutrition practices, and in food safety practices.
 - ⇒ It is also expected that youth will continue to enroll in EFNEP 4-H food and nutrition projects, attend 4-H camp, and exhibit projects at the county fairs. It is expected that EFNEP youth will complete pre and post-tests, indicating behavior changes resulting from their attendance in the program. The tests will include questions regarding food and beverage choices, meal and snack intake, and food-safety measures such as hand washing.

4) Project: Extension Nutrition Program (ENP)

- **PLANNED OUTPUTS:**
 - ⇒ Data will be collected from the Food Behavior Checklist to measure improvements in behaviors.
- **EXPECTED OUTCOMES:**
 - ⇒ It is expected that graduates of the program will improve their nutrition behaviors, food safety behaviors, resource management behaviors, and physical activity behaviors.

5) Project: Got Calcium?

- **PLANNED OUTPUTS:**
 - ⇒ Elementary school children participate in the revised Got Calcium curriculum developed and tested by UI Extension.
- **EXPECTED OUTCOMES:**
 - ⇒ Evaluation tools have been developed to determine calcium consumption of youth and test their knowledge of calcium and skills in completing calcium-related activities. The following information will be collected:
 - > Calcium intake
 - > Knowledge of calcium functions and food sources
 - > Knowledge of calcium and bone health from completion of a "sticky bone" activity.
 - > Ability to plan high calcium meals and snacks using foods in the supermarket.
 - > Ability to boost calcium intake by completing a "Got Calcium" workbook activity.

6) Project: Meal Time in Less Time

- **PLANNED OUTPUTS:**
 - ⇒ The topic team has developed a four-class meal planning a preparation curriculum. Topic for each of the classes are: Basic meal planning, Shopping Essentials, Healthy Guide to "What's For Dinner" and "Fast Food at Home - Tips for Streamlining Your Kitchen"
 - ⇒ Team members plan to teach the series of classes this year, and publish the curriculum through Ag. Communications.
- **EXPECTED OUTCOMES:**
 - ⇒ knowledge and awareness using pre/post tests for each class
 - ⇒ skills by having participants complete activities in each class

- ⇒ Measure changes in behavior via a follow-up phone call or mail-in survey/postcard or collecting grocery receipts to determine if participants are:
 - > planning their meals
 - > purchasing healthier grocery items
 - > modifying their recipes to be healthier
 - > using kitchen appliances correctly to cut down on meal preparation time

7) **Project: Osteoporosis**

- **PLANNED OUTPUTS:**
 - ⇒ A series of classes in the Osteoporosis Prevention and Treatment curriculum.
- **EXPECTED OUTCOMES:**
 - ⇒ Participants will increase their knowledge of: (1) osteoporosis causes and risk factors, (2) bone health, (3) how to use food labels to plan meals and snacks high in calcium.
 - ⇒ Behavior changes are increase in calcium consumption and physical activity, which will be measured by activity logs and participant surveys.

8) **Project: Senior Extension Nutrition Program (SENP)**

- **PLANNED OUTPUTS:**
 - ⇒ Delivery of a four-class meal planning a preparation curriculum.
 - ⇒ Publish the curriculum through Ag. Communications.
- **EXPECTED OUTCOMES:**
 - ⇒ knowledge and awareness increased
 - ⇒ skills improved for participants related to:
 - > planning their meals
 - > purchasing healthier grocery items
 - > modifying their recipes to be healthier
 - > using kitchen appliances correctly to cut down on meal preparation time

9) **Project: Wellness in the Rockies**

- **PLANNED OUTPUTS:**
 - ⇒ Some of the curricula that are currently being tested include
 - > *A New You, Health for Every Body* adult curriculum (10 classes) on healthful and pleasurable eating, physically active living and self-acceptance and size-acceptance
 - > *WIN Kids* (Wellness In Kids), an 8 lesson series for 5th - 6th graders on nutrition and physical activity
 - > *Preston on the Move* a walking program
 - > *Full of Ourselves*, a body image program for grade school girls.
- **EXPECTED OUTCOMES:**
 - ⇒ It is expected that participants will have an increased knowledge and improved behaviors related to healthful and pleasurable eating, physically active living and self-acceptance and size-acceptance.
 - ⇒ It is also expected that participants will increase physical activity.

Goal 4. Greater Harmony between agriculture and the environment

A. Commercial and Consumer Horticulture

1) Project: Advanced Master Gardener Education and Retention

- **PLANNED OUTPUTS:**
 - ⇒ Determine current activities used by county faculty to maintain interest of Master Gardeners in their programs. County faculty can be surveyed to obtain ideas and activities they currently use to keep Master Gardeners in the program beyond the first year of training. After curriculum issues are identified, the county faculty will poll advanced Master Gardeners to determine their wishes for curriculum needs.
 - ⇒ Produce educational materials that can be used for advanced Master Gardener training. County faculty and experienced Master Gardeners should be able to present the training materials to Master Gardeners who have completed the basic training program.
 - ⇒ Provide a list of activities that should keep the interest of trained Master Gardeners.
- **EXPECTED OUTCOMES:**
 - ⇒ Active participation and interest by Master Gardeners so that they remain involved in the MG programs beyond the initial training year. This outcome can be determined by surveying the how long Master Gardeners have served their county programs.
 - ⇒ Advanced Master Gardeners have increased knowledge in different gardening subjects to maintain their interests and enhance their expertise. Educational materials developed for advanced Master Gardeners will strongly influence this outcome. Advanced Master Gardeners can be surveyed to find out how much they have improved their knowledge after their first year of training.
 - ⇒ Retain sufficient numbers of Master Gardeners, who have received the first year of training, so that they can help county faculty manage the workload for gardening information requested by the public. County faculties can document how much time advanced Master Gardeners work in their counties each year.
 - ⇒ Maintain enough advanced Master Gardeners so that new Master Gardeners can take the first year training for CEU credits rather than volunteer time, thereby generating a source of funding to help support the MG program. The number of CEU can be counted each year to determine how many first time Master Gardeners are taking the program for credit.

2) Project: Beginning Master Gardener Training

- **PLANNED OUTPUTS:**
 - ⇒ All county faculty and state specialists listed as inputs will contribute to beginning Master Gardener training programs. Sixteen Idaho counties plan to conduct training programs for beginning Master Gardeners this year. Training programs typically will involve 30 to 45 hours of training. Between 230 to 250 people will be attending classes for beginning Master Gardener training each year.
 - ⇒ The Master Gardener handbook is integral to beginning Master Gardener training, and from time to time it should be updated:
 - > During 2003, Dr. Jason Ellsworth will be reviewing and updating the chapters pertaining to soils in the handbook.
 - > Also during 2003, Dr. Dan Barney and Mr. Wayne Jones will start developing a chapter on organic gardening that can be included in the handbook
 - > In Ada County, Ms. Susan Bell will use three volunteer training programs during 2003 to supplement her Master Gardener training programs; these programs are The Boise Tree Steward Program, The Master Composter Program, and the Volunteer Training Program.

- **EXPECTED OUTCOMES:**
 - ⇒ About 160 people, roughly 70% of the trainees, participating in beginning Master Gardener training will finish all the training sessions.
 - ⇒ The people who complete the entire training program for beginning Master Gardeners will have improved gardening knowledge and skills, allowing them to lead some training efforts for county extension programs involving consumer horticulture.
 - ⇒ The people who have completed the entire beginning Master Gardener training program will enjoy the program enough to complete their volunteer hours for certification. About 60% of the people who have completed the program will complete their volunteer hours resulting in roughly 4000 hours of volunteer service statewide. During these volunteer hours, the beginning Master Gardeners will provide invaluable services to UI county faculty by handling questions from and providing educational programs to the public.
 - ⇒ The new Master Gardeners will complete community projects in their various counties.
 - ⇒ The long-term outcome for this project is to entice the people who have completed the beginning Master Gardener program to stay with the program for at least two additional years and to participate in advanced Master Gardener training.

3) Project: Consumer Horticulture Education

- **PLANNED OUTPUTS:**
 - ⇒ All county faculty and state specialists listed above will contribute to consumer horticulture programming, whether offering classes or going to individual homes to examine problems and answer questions. Educational programs and site visits will be made throughout the state. Trained Master Gardener volunteers, county extension educators and extension specialists will offer classes on horticultural topics to the general public throughout the year. Classes will be taught either singly, upon request from a group or school, or as a series of seminars which county extension educators organize and offer annually. Subject matter in presentations will include vegetable gardening, fruit (tree or small fruit) production, growing flowers, and maintaining landscape (woody) plants.
 - ⇒ Two large and well publicized symposia will be offered this year. Dr. Juliet Windes is offering a symposium entitled *Gardening Undaunted in Eastern Idaho* on March 1, 2003, and the symposium is being held in Idaho Fall, Idaho. Dr. Michael Colt and Ms. Marlene Fritz are organizing a symposium entitled *Pretty-As-A-Picture Garden* on March 23, 2003 and this symposium is being offered in Boise.
 - ⇒ Popular press articles, newsletters, phone calls and radio shows will be other outputs involved in accomplishing the goals for this topic. Other projects and outputs will be offered as stakeholders and others provide input.
- **EXPECTED OUTCOMES:**
 - ⇒ Homeowners and the general public are more knowledgeable about gardening and their gardening skills should improve so that they can do a better job caring for their gardens and landscape plants.
 - ⇒ Improved gardening skills lead to better and more efficiently maintained landscapes. People participating in various consumer horticulture programs should be more aware of proper horticultural techniques and practices.

- ⇒ People participating in various programs will be more knowledgeable when choosing a professional horticulture company or product to help them with in some way.
- ⇒ Presentations made by University personnel should encourage participants to want to learn more and therefore enroll in the Master Gardener volunteer program.
- ⇒ People who have participated in various programs should have a changed mindset about how to grow plants and take care of their gardens or landscapes. Their knowledge should lead them to use environmentally sound cultural practices required for plant maintenance rather than heavy reliance on chemicals or maintenance practices that are unnecessary or even deleterious. In addition, natural resources (e.g., water) will be conserved while still maintaining a beautiful landscape. The ultimate outcome of providing consumer horticulture information is to help homeowners save money and natural resources while minimizing the effects of cultural practices on the environment.

4) Project: Education for the Green Industry

- **PLANNED OUTPUTS:**
 - ⇒ Develop and provide extension publications (e.g., CIS publications) that are aimed specifically for use by green industry personnel.
 - ⇒ Develop and provide educational programs for green industry personnel. Educational programs could include short courses for Continuing Education Units (CEU) and field days. Educational programs could include information on horticultural principles, insects, diseases, and landscaping practices.
- **EXPECTED OUTCOMES:**
 - ⇒ Industry professionals are more knowledgeable about floral and landscape plants as well as landscape maintenance practices. This outcome can be determined by having participants in educational programs complete pre-tests and post-tests to assess knowledge gained from the program.
 - ⇒ Improve efficiency of green industry employees when proper horticultural techniques are practiced. This outcome can be determined by surveying company managers about employee efficiency after they have complete educational programs.
 - ⇒ Enhance professional status of green industry employees in Idaho. This outcome can be assessed by surveying employees to determine how many have become certified by trade associations (e.g., become a certified nursery professional, a certified arborist, or a certified landscape maintenance technician). In addition, the general public could be surveyed for their perceptions regarding the professionalism of green industry personnel.
 - ⇒ Reduce the "pay for spray" mentality and promote environmentally sound cultural practices required for plant maintenance rather than promoting profits. This outcome can be assessed by surveying various green industry companies for how they have changed their horticultural practices over the years.
 - ⇒ Improve professional practices by green industry personnel so that plants are produced and maintained in an environmentally responsible manner by using sound cultural practices. This outcome can be determined by surveying industry personnel about their changes in attitude regarding horticultural practices.

5) Project: Water and Nutrient Management in Urban Landscapes

- **PLANNED OUTPUTS:**

- ⇒ Provide educational programs that improve public awareness about landscape water and fertilizer issues, including programs on xeriscaping.
- ⇒ Develop information on water and nutrients needed by landscape plants. This information could be included with water bills sent to customers.
- ⇒ Develop educational information to inform the public about water and fertilizer needs in urban landscapes. Information developed could include a series of CIS publications on Landscape Water Management, a Power Point presentation on water issues in urban landscapes (to be used by county faculty and Master Gardeners), or Ag in the Classroom units.
- **EXPECTED OUTCOMES:**
 - ⇒ People will become informed about urban landscape water and fertilizer issues by attending educational programs provided at the county and state levels. The number of people reached by these programs can be determined each year.
 - ⇒ The general public will learn about landscape plant water and nutrient needs by receiving information sent with their water bills. The number of water companies sending out this information and the number of water customers reached can be tracked.
 - ⇒ County faculty and their assistants (including Master Gardeners) will have an impact on their various clientele to reduce unnecessary watering and fertilizing due to using developed CIS publications or a Power Point presentation. The number of presentations made and number of people reached can be documented for effectiveness of the programs.
 - ⇒ The real-estate developers, and landscape professionals will choose landscape plants that use water efficiently. This outcome can be measured by surveying the developers and landscape professionals on their use of water efficient plants. In addition, the number of water efficient plants sold by garden centers in urban areas could be tracked over time.
 - ⇒ The public will efficiently use water and fertilizer on landscape plants in urban and rural areas. People living in urban areas can be surveyed to determine if they are using more sustainable landscape maintenance practices on plants than they were when this priority was implemented.
 - ⇒ Conservation of nutrient and water resources will result in an improved quality of life. Water companies in urban areas can be surveyed to determine if average water usage by their largest customers has decreased over time. In addition, surface and ground water in urban areas can be analyzed to determine if nutrient contamination (particularly N and P) has been reduced.

B. Environmental & Resource Policy Topic Team

1) *Project:* Homeland Security

- **PLANNED OUTPUTS:**
 - ⇒ Assessment of potential risks and impacts of disease outbreaks.
 - ⇒ Educational materials, checklists, handbooks, and workshops on improving homeland security.
 - ⇒ Development of statistics regarding interstate movement of livestock.
 - ⇒ Identification of livestock populations in Idaho where the greatest homeland security risks reside.
 - ⇒ Assessment of trade implications and economic impacts from quarantine or restricted livestock movement.
- **EXPECTED OUTCOMES:**

- ⇒ Better informed public and producers.
- ⇒ Bio-secure dairies and feedlots and other agricultural production enterprises.
- ⇒ Change of public and producer attitudes and behaviors with respect to homeland security issues.
- ⇒ Development and or implementation of HACCP's (Hazard Analysis Critical Control Points) for industries where they don't presently exist.

2) **Project: Urban/Rural Interface**

- **PLANNED OUTPUTS:**
 - ⇒ Summary for education programs on planning and zoning using available information (e.g., local policy handbook).
 - ⇒ Input/output models examining cost of providing services to different users of the land.
 - ⇒ Regional workshops on planning and zoning for county commissioners and planning and zoning boards.
 - ⇒ Tax incentive financing (TIFS) information for attracting businesses.
 - ⇒ Educate voters on property rights (taxpayer education)
 - ⇒ Develop publications targeting local officials on land use, taxation, and development tools. Develop materials for workshops.
 - ⇒ Education of taxpayers on land use, taxation, and development using publication summaries, education resources, and benefit/cost analysis.
 - ⇒ A training program for interested county faculty.
 - ⇒ Development of databases and cadres of experts to help local communities address various issues as they relate to various Environmental Impact Statements (EIS).
 - ⇒ Work with local publics and government officials to get local communities more involved in the decisions that affect the economic viability of their enterprises and their communities.
- **EXPECTED OUTCOMES:**
 - ⇒ Increase public understanding of property rights.
 - ⇒ Increase local official's knowledge of the tools available to manage growth.
 - ⇒ More active involvement of local government and citizens in issues that affect their economic viability.
 - ⇒ Maintain the economic health of rural communities.
 - ⇒ Preserve open spaces.
 - ⇒ Better understanding of the issues affecting rural Idaho.
 - ⇒ More public involvement in the issues affecting rural Idaho.

C. **Forest management Topic Team**

3) **Project: Family Forest Owners**

- **PLANNED OUTPUTS:** Note: Outputs listed under the "Loggers" and "Natural Resource Professionals" topic team projects will also reach some of this audience.
 - ⇒ Forestry Shortcourse (one set of six 3-hour sessions)
 - ⇒ Current Topics in Forest Health (two 1-day sessions)
 - ⇒ An Introduction to Conservation Easements (two 3-hour sessions)
 - ⇒ Landscaping for Fire Prevention (one 2-hour session)
 - ⇒ Backyard Forests (one 2-hour session)
 - ⇒ Scaling and Marketing Private Timber (two one-day sessions)
 - ⇒ Private Forest Landowners Workshop (one 2-day session)

- ⇒ Habitat Field Day (one 1-day session)
 - ⇒ Thinning and Pruning Field Day (one 1-day session)
 - ⇒ Forest Insects & Disease Field Day (two 1-day sessions)
 - ⇒ Pruning for White Pine Blister Rust (one 1-day session)
 - ⇒ Managing Forest Organic Debris (one 1-day session)
 - ⇒ Growing Superior Tree Seed (one 2-day session)
 - ⇒ Master Gardener training sessions.
 - ⇒ Clearwater Area Educators Forestry Tour
 - ⇒ Clearwater County 6th grade forestry Tour (3 days)
 - ⇒ Woodland NOTES (two 4-page issues, 10,000 households)
 - ⇒ Articles in Farm Bureau Gem State Producer (10 articles - 15,000 households) and Farm Bureau Quarterly (4 articles - 61,000 households)
 - ⇒ HomeWise (newspaper column distributed to 59 daily and weekly newspapers in Idaho, plus numerous radio and TV stations).
 - ⇒ After the Burn (publication)
 - ⇒ Managing Organic Debris & Slash (publication)
 - ⇒ Pruning for White Pine Blister Rust (publication)
 - ⇒ Landscaping for Fire Prevention (revised publication)
 - ⇒ An Assessment of Dike Riparian Vegetation on the Northern Idaho Reaches of the Kootenai River (publication)
 - ⇒ UI Extension Forestry web site
 - ⇒ Pilot web-based learning module on forest management planning
- **EXPECTED OUTCOMES:**
 - ⇒ Increased awareness, knowledge, and skills related to forest ecology, silviculture, and forest management.
 - ⇒ Increased implementation of improved forest management practices

4) **Project: Loggers**

- **PLANNED OUTPUTS:**
 - ⇒ LEAP Update (six 10-hour sessions)
 - ⇒ Logger Education to Advance Professionalism (two 3-day sessions)
- **EXPECTED OUTCOMES:**

5) **Project: Natural Resource Professionals**

- **PLANNED OUTPUTS:**
 - ⇒ NIPF Foresters workshop (one-day session).
 - ⇒ Presentations at natural resource workshops and conferences.
 - ⇒ Natural resource workshops and field days for youth and K-12 teachers.
 - ⇒ Publications, posters and other media in journals and other venues targeted to natural resource professionals.
- **EXPECTED OUTCOMES:**
 - ⇒ Improved implementation of forest management practices.
 - ⇒ Increased knowledge and skills related to forest ecology, silviculture, and other forest management practices.
 - ⇒ Enhanced ability to work with family forest owners.
 - ⇒ Credits towards professional credentials (certified forester credentials, degree and certificate programs, pesticide applicator licenses).

D. Nutrient & Waste Management Topic Team

6) **Project: Animal General Nutrient Management Education and Support**

- **PLANNED OUTPUTS:**
 - ⇒ Guidelines to evaluate the effectiveness of various systems of waste management.
- **EXPECTED OUTCOMES:**
 - ⇒ Fewer problems in the management of waste systems.

7) **Project: Animal Nutrient Balance Study and Education in Drylot Dairies**

- **PLANNED OUTPUTS:**
 - ⇒ A summary report on the outcomes of the study that can be used with the cooperating producers on their operations. It will be at least a year before the final report can be issued that we can use throughout the state.
- **EXPECTED OUTCOMES:**
 - ⇒ On the cooperating dairies we should see a reduction in the output of nutrients in manure products because they have managed the diet to lower the input of what could be called excess nutrients.

8) **Project: Crop Management**

- **PLANNED OUTPUTS:**
 - ⇒ Valid research results
 - ⇒ Extension publications
 - ⇒ Workshops and Field days
 - ⇒ Improved rates of application for nutrients
- **EXPECTED OUTCOMES:**
 - ⇒ Better understanding of nutrient management
 - ⇒ Desire to improve nutrient management practices
 - ⇒ More informed growers about the wise use of nutrients
 - ⇒ Growers and producers implementing sound NM practices
 - ⇒ Measurable changes in nutrient use and improvement in crop yields and quality.
 - ⇒ Measured sustainable soil nutrient levels
 - ⇒ Soil nutrient levels and practices being implemented which result in improved ground and surface water quality
 - ⇒ Improved public perception of agriculture related to nutrient management

9) **Project: Nutrient Management Planning**

- **PLANNED OUTPUTS:**
 - ⇒ Provide training workshops on upgraded fertilization/application and crop uptake guides
 - ⇒ Internet self study guides for recertification credits
 - ⇒ Liaison w/regulatory agencies
 - ⇒ Develop a curriculum for training certified planners
 - ⇒ Workshops for Producers with CNMPs
 - ⇒ Workshops of continuing education for CNMP Planners

- ⇒ Case studies
- ⇒ On-farm demonstrations
- **EXPECTED OUTCOMES:**
 - ⇒ Increased understanding of CNMPs by end users
 - ⇒ Increase level of understanding of CNMPs by Certified Planners
 - ⇒ Increased level of understanding by CNMP Trainers
 - ⇒ Increased utilization of Idaho OnePlan Nutrient Management Planning Module by planners and end users
 - ⇒ Increase access to Certified Crop Advisor Credits
 - ⇒ Increased compliance with individual CNMPs
 - ⇒ Effective communication and coordination with regulatory agencies
 - ⇒ Sound research on which to base policy decisions
 - ⇒ Organized system of continuing education for trainers, planners and end users
 - ⇒ Decreased citations for CNMP infractions
 - ⇒ Improved public perception of the nutrient management practices of the livestock industry
 - ⇒ Measured sustainable soil nutrient levels which pose minimal environmental impact
 - ⇒ Soil nutrient levels and practices being implemented which result in
 - ⇒ Improved ground and surface water quality
 - ⇒ Improved public perception of agriculture related to nutrient management

E. Pesticide Safety Education Program (PSEP) Topic Team

1) **Project: Initial Certification Training**

- **PLANNED OUTPUTS:**
 - ⇒ State and federal law requires that people who plan to use certain types of pesticides must demonstrate their competency by passing a closed-book certification exam administered by the Idaho State Department of Agriculture. UI County Extension Educators periodically offer on-site training workshops that supplement written self-study manuals and so prepare individuals for their certification exams.
 - > Workshops
 - > Brochures
 - > Training
 - ⇒ Primary target audiences for initial certification and recertification training programs are Private Applicators and Commercial Applicators. Non-certification training especially will target our statewide staff of Master Gardeners; some 350 Master Gardener volunteers in Idaho provide advice and recommendations to thousands of homeowners annually about yard & garden pesticides and so can have a substantial impact on improving home pesticide use. Small acreage producers are another target audience.
 - ⇒ Private Applicators either directly use or supervise the use of agricultural chemicals (or apply pesticides or fertilizers through irrigation systems) for agricultural or forest crops on land they own or operate. We especially target Private Applicators because they are Idaho's single largest applicator group (4300 licensed statewide).
 - ⇒ Professional Applicators apply or supervise the application of pesticides on the land or property of another person for compensation, or apply pesticides or fertilizers through irrigation systems on the land or property of another for compensation, or offer technical advice and recommendations about

agricultural pesticides. Some 3200 Professional Applicators are licensed statewide in 21 different ISDA certification categories (for current categories, see *Idaho Pesticide Licensing Guide*, <http://www.agri.state.id.us/agresource/licensingTOC.htm>). Given our areas of faculty expertise and FTE commitment, we primarily target the following subset of Professional Applicator categories:

- > Ag Plants (ISDA categories AI, AH and SF)
 - o 1990 licensed applicators who use insecticides, herbicides and fungicides in agricultural fields, right-of-ways, forests and rangelands;
 - > Ornamentals (ISDA categories OI and OH)
 - o 1300 licensed applicators who use insecticides, herbicides and fungicides in outdoor, urban sites;
 - > Statewide Consultant
 - o 900 licensed persons who make recommendations or supply technical advice about the use of any pesticide for agricultural purposes;
 - > Right of Way (ISDA category RW)
 - o 300 licensed applicators who control roadside weeds on non-crop public and private lands for railroads, highway departments and similar employers.
- o **EXPECTED OUTCOMES:**
 - ⇒ Our programming goal is the same for all target audiences - to increase the number of pesticide applicators who adopt pesticide safety and risk management practices.
 - ⇒ For consistency with objectives identified by USDA-CSREES for national programming in pesticide safety, we adopt in Idaho as primary indicators of PSEP impact the following two measures:
 - ⇒ INDICATOR 1
 - > Number of Private Applicators, Commercial Applicators and homeowners who *plan* to adopt at least 1 pesticide safety and risk management practice;
 - ⇒ INDICATOR 2
 - > Number of Private Applicators, Commercial Applicators and homeowners who *do adopt* at least 1 pesticide safety and risk management practice;

2) **Project: Non-Certification Training**

- o **PLANNED OUTPUTS:**
 - ⇒ Primary target audiences for initial certification and recertification training programs are Private Applicators and Commercial Applicators. Non-certification training especially will target our statewide staff of Master Gardeners; some 350 Master Gardener volunteers in Idaho provide advice and recommendations to thousands of homeowners annually about yard & garden pesticides and so can have a substantial impact on improving home pesticide use. Small acreage producers are another target audience.
 - ⇒ Private Applicators either directly use or supervise the use of agricultural chemicals (or apply pesticides or fertilizers through irrigation systems) for agricultural or forest crops on land they own or operate. We especially target Private Applicators because they are Idaho's single largest applicator group (4300 licensed statewide).
 - ⇒ Professional Applicators apply or supervise the application of pesticides on the land or property of another person for compensation, or apply pesticides or fertilizers through irrigation systems on the land or property of another for compensation, or offer technical advice and recommendations about agricultural pesticides. Some 3200 Professional Applicators are licensed statewide in 21 different ISDA certification categories (for current categories,

see *Idaho Pesticide Licensing Guide*, <http://www.agri.state.id.us/agresource/licensingTOC.htm>). Given our areas of faculty expertise and FTE commitment, we primarily target the following subset of Professional Applicator categories:

- > **Ag Plants (ISDA categories AI, AH and SF)**
 - o 1990 licensed applicators who use insecticides, herbicides and fungicides in agricultural fields, right-of-ways, forests and rangelands;
- > **Ornamentals (ISDA categories OI and OH)**
 - o 1300 licensed applicators who use insecticides, herbicides and fungicides in outdoor, urban sites;
- > **Statewide Consultant**
 - o 900 licensed persons who make recommendations or supply technical advice about the use of any pesticide for agricultural purposes;
- > **Right of Way (ISDA category RW)**
 - o 300 licensed applicators who control roadside weeds on non-crop public and private lands for railroads, highway departments and similar employers.
- o **EXPECTED OUTCOMES:**
 - ⇒ Our programming goal is the same for all target audiences - to increase the number of pesticide applicators who adopt pesticide safety and risk management practices.
 - ⇒ For consistency with objectives identified by USDA-CSREES for national programming in pesticide safety, we adopt in Idaho as primary indicators of PSEP impact the following two measures:
 - ⇒ **INDICATOR 1:**
 - > Number of Private Applicators, Commercial Applicators and homeowners who *plan* to adopt at least 1 pesticide safety and risk management practice;
 - ⇒ **INDICATOR 2:**
 - > Number of Private Applicators, Commercial Applicators and homeowners who *do adopt* at least 1 pesticide safety and risk management practice;

3) **Project: Recertification Training**

- o **PLANNED OUTPUTS:**
 - ⇒ UI County Extension Educators and State Extension Specialists annually convene local and state workshops that are specifically designed as recertification seminars. We also provide recertification training opportunities through a series of extension-sponsored winter commodity schools. Significant venues include the Sugarbeet Conference, Potato Conference and regional Cereal Schools as well as the Bean School and Forage and Hay Schools. Finally, we offer recertification training by speaking as technical subject-matter experts at workshops sponsored by other agencies, such as the annual Idaho Crop Production Association - Fertilizer & Chemical Conference.
 - ⇒ Primary target audiences for initial certification and recertification training programs are Private Applicators and Commercial Applicators. Non-certification training especially will target our statewide staff of Master Gardeners; some 350 Master Gardener volunteers in Idaho provide advice and recommendations to thousands of homeowners annually about yard & garden pesticides and so can have a substantial impact on improving home pesticide use. Small acreage producers are another target audience.
 - ⇒ Private Applicators either directly use or supervise the use of agricultural chemicals (or apply pesticides or fertilizers through irrigation systems) for agricultural or forest crops on land they own or operate. We especially target

Private Applicators because they are Idaho's single largest applicator group (4300 licensed statewide).

⇒ **Professional Applicators** apply or supervise the application of pesticides on the land or property of another person for compensation, or apply pesticides or fertilizers through irrigation systems on the land or property of another for compensation, or offer technical advice and recommendations about agricultural pesticides. Some 3200 Professional Applicators are licensed statewide in 21 different ISDA certification categories (for current categories, see *Idaho Pesticide Licensing Guide*, <http://www.agri.state.id.us/agresource/licensingTOC.htm>). Given our areas of faculty expertise and FTE commitment, we primarily target the following subset of Professional Applicator categories:

- > **Ag Plants (ISDA categories AI, AH and SF)**
 - 1990 licensed applicators who use insecticides, herbicides and fungicides in agricultural fields, right-of-ways, forests and rangelands;
- > **Ornamentals (ISDA categories OI and OH)**
 - 1300 licensed applicators who use insecticides, herbicides and fungicides in outdoor, urban sites;
- > **Statewide Consultant**
 - 900 licensed persons who make recommendations or supply technical advice about the use of any pesticide for agricultural purposes;
- > **Right of Way (ISDA category RW)**
 - 300 licensed applicators who control roadside weeds on non-crop public and private lands for railroads, highway departments and similar employers.

○ **EXPECTED OUTCOMES:**

- ⇒ **Our programming goal is the same for all target audiences - to increase the number of pesticide applicators who adopt pesticide safety and risk management practices.**
- ⇒ **For consistency with objectives identified by USDA-CSREES for national programming in pesticide safety, we adopt in Idaho as primary indicators of PSEP impact the following two measures:**
- ⇒ **INDICATOR 1:**
 - > **Number of Private Applicators, Commercial Applicators and homeowners who *plan* to adopt at least 1 pesticide safety and risk management practice;**
- ⇒ **INDICATOR 2:**
 - > **Number of Private Applicators, Commercial Applicators and homeowners who *do adopt* at least 1 pesticide safety and risk management practice;**

F. Range Management Topic Team

4) **Project: Grazing Management Practices**

○ **PLANNED OUTPUTS:**

- ⇒ **Two day in-service training on livestock grazing behavior principles including hands-on-training in modifying livestock behavior**
- ⇒ **Co-sponsor 33rd Annual Pacific Northwest Range Management Symposium on grazing behavior at Baker City, OR, March 9-11, 2004**
- ⇒ **Conduct minimum of four 2-day workshops on proper functioning condition of riparian areas around the state**

- ⇒ Topic team members and other extension personnel will have knowledge of livestock grazing behavior principles, how to modify behavior and how to use behavior as a tool for better grazing management and weed control
- ⇒ Each participant will receive resource material on livestock behavior
- **EXPECTED OUTCOMES:**
 - ⇒ Ranchers and public land agency personnel will have knowledge of livestock grazing behavior principles, how to modify behavior and how to use behavior as a tool for better grazing management and weed control
 - ⇒ Grazing management practices will be implemented to improve the condition of riparian areas and control the spread of noxious weeds on private and public rangelands

5) Project: Public Education and Awareness of Benefits and Costs Associated with Grazing

- **PLANNED OUTPUTS:**
 - ⇒ Rangeland 4-H program initiated
 - ⇒ Central Idaho Natural Resources Youth Camp
 - ⇒ Develop list of resource people for use by IRRC in teacher education program
 - ⇒ Identify individuals in counties/districts willing to keep and maintain educational resource material kits for use by teachers
- **EXPECTED OUTCOMES:**
 - ⇒ Teachers in schools throughout Idaho will have a better understanding of rangelands and ranching in Idaho
 - ⇒ Teachers will have access to materials developed to teach about rangelands and ranching in Idaho
 - ⇒ Teachers will have a local contact for information and assistance about rangelands

6) Project: Rangeland Invasive Plant Management

- **PLANNED OUTPUTS:**
 - ⇒ Conduct educational programs for ranchers, farmers and CWMA participants, teaching participants about plant biology/ecology and management
 - ⇒ Conduct workshops to address identification and management of specific species as well as strategic planning scheduled for late February.
 - ⇒ Complete a web site for invasive plant management called Idaho Weed Resources, www.uidaho.edu/weeds
 - ⇒ Publish and update bulletins on specific species: specifically half-shrub polygonums, oxeye daisy, hoary cress update, perennial pepperweed.
- **EXPECTED OUTCOMES:**
 - ⇒ UI Extension addresses educational needs expressed by CWMA's
 - ⇒ UI Extension engages other groups and supports other groups to meet identified CWMA needs
 - ⇒ UI Extension educates CWMA participants on aspects of invasive plant management to help them be successful in their efforts
 - ⇒ UI Extension provides identification of plants via actual plant submission and via electronic image submission
 - ⇒ UI Extension maintains a web site for education on invasive plants and their management

- ⇒ UI Extension provides funding to identify needs expressed by clientele and evaluates efforts to address those needs
- ⇒ UI Extension educates people involved in invasive plant management in Idaho
- ⇒ UI Extension develops educational materials for use by people involved in invasive plant management

G. Water quality Topic Team

7) **Project: Drinking Water and Human Health**

- **PLANNED OUTPUTS:**
 - ⇒ Workshops
 - ⇒ Domestic Water Quality Resource Guide CDE-mail Updates
 - ⇒ Publications
 - ⇒ Field Days and tours
 - ⇒ Websites
 - ⇒ Plant Protection Seminars
 - ⇒ Improved and Relevant ONEPLAN modules
 - ⇒ Develop IPM module for ONEPLAN
 - ⇒ Training for policy makers and other agency personnel
 - ⇒ Improved N Mineralization studies for methods/credits
 - ⇒ BMP's on fertilizer timing/application
 - ⇒ Develop irrigation BMP's
 - ⇒ Develop drinking water television program
 - ⇒ Provide arsenic educational material resources
- **EXPECTED OUTCOMES:**
 - ⇒ Awareness of magnitude of the problem
 - ⇒ Awareness of and understanding of the potential threats of water contaminants
 - ⇒ Awareness of water sampling and testing programs available for rural landowners
 - ⇒ Awareness of health concerns with nitrates and arsenic
 - ⇒ Improved collaboration & communication with agency personnel including local health districts
 - ⇒ Increasing awareness of septic system alternatives
 - ⇒ Homeowners properly maintain and operate their on-site sewage systems
 - ⇒ On-site septic system users properly dispose of potentially harmful household chemicals
 - ⇒ Knowledge of clientele about leachability of pesticide sources and nitrogen sources
 - ⇒ Water well users proactively protect wellheads and fill and/or seal unused wells
 - ⇒ Conversion from surface irrigation to more efficient irrigation systems
 - ⇒ Increase availability of cost efficient soil & water monitoring systems
 - ⇒ Irrigation technology improvement
 - ⇒ Decreased nitrates in groundwater in the critical areas/statewide (long-term)
 - ⇒ Development, testing and implementation of new BMP's to protect groundwater (long-term)
 - ⇒ Improved water management (long-term)
 - ⇒ Reduced contamination of groundwater and surface water from microbes

8) **Project: Water Education**

- **PLANNED OUTPUTS:**

- ⇒ Workshops
 - ⇒ Field days and tours
 - ⇒ E-mail updates
 - ⇒ Publications
 - ⇒ Web sites
 - ⇒ Plant Protection Seminars
 - ⇒ Improved and Relevant ONEPLAN modules
 - ⇒ Train the water quality trainer program
- **EXPECTED OUTCOMES:**
 - ⇒ Awareness of water issues for growers, local citizens and decision makers.
 - ⇒ Understanding of major water quality issues.
 - ⇒ Understanding of major water quantity issues.
 - ⇒ Increased number of educators trained in water quality monitoring techniques.
 - ⇒ Increased awareness by municipal officials of resources of NEMO strategies available which can enhance the decision making process for land use planning.
 - ⇒ Improved collaboration and communication between agency personnel.
 - ⇒ Awareness and use of the IDAHO ONEPLAN.
 - ⇒ Understanding of the TMDL process by local citizens.
 - ⇒ Increased grower awareness of Best Management Practices (BMP's)
 - ⇒ Commissioners and planners use NEMO techniques when making zoning decisions.
 - ⇒ Citizens form active voluntary water monitoring groups.
 - ⇒ Additional modules are developed for the IDAHO ONEPLAN.
 - ⇒ All farmers and ranchers in Idaho use the IDAHO ONEPLAN to make nutrient and pest management decisions that impact water resources.
 - ⇒ TMDL plans are implemented in all 303d watersheds in Idaho.
 - ⇒ Determine barriers to grower implementation of BMP's
 - ⇒ Citizens make informed water quantity policy decisions.
 - ⇒ Citizens make informed water quality policy decisions.
 - ⇒ Land use-planning decisions result in protection of water resources in the state.
 - ⇒ Voluntary water monitoring networks result in decisions that improve quality in Idaho's surface waters.
 - ⇒ The use of the IDAHO ONE PLAN results in improved water quality.
 - ⇒ Implemented TMDL plans result in all surface water bodies meeting designated beneficial uses.
 - ⇒ Improvement in water quality through grower implementation of BMP's

Goal 5. Enhanced economic opportunity and quality of life for Americans

A. Family Financial Management Topic Team

1) Project: Budgeting, Tracking Spending, Record-Keeping

- **PLANNED OUTPUTS:**
 - ⇒ Classes for ENP and EFNEP clients- Nutrition Advisors; FY 04
 - ⇒ Classes for community and church groups, Community Action agencies, Head Start, Even Start, prisoners-Nutrition advisors, FCS educators; FY 04
 - ⇒ Newsletter and HomeWise articles- specialist, educators; FY 04
 - ⇒ Training for District III ENP educators/coordinators & other FCS educators-

- ⇒ Training for ENP and EFNEP nutrition advisors- upon request
- ⇒ *Dollar Decision*\$ Spanish language video developed; November 04
- ⇒ *Dollar Decision*\$ Video/Publications continued marketing-
- ⇒ *Dollar Decision*\$ Poster and concurrent session proposals submitted to NEAFCS-
- ⇒ *Dollar Decision*\$ Display exhibited at conferences and Extension Legislative showcase
- ⇒ Submit products for awards- Ag Communications,
- **EXPECTED OUTCOMES:**
 - ⇒ 300 low- and moderate- income clients will participate in Extension's Basic Financial Management programs
 - ⇒ Participants will:
 - > Become aware of methods to track expenses;
 - > Try a budgeting method
 - > Identify needs and wants
 - > Set financial goals
 - > Become aware of record-keeping systems
 - > Save and file receipts
 - > Organize financial records
 - ⇒ At least 10 Extension educators will teach *Dollar Decision*\$ classes and report evaluation results to the specialist and IDEAS
 - ⇒ At least three EFNEP/ENP supervisors will collect evaluation data from their nutrition advisors and submit data to the specialist.

2) **Project: Credit/Debt management Curriculum**

- **PLANNED OUTPUTS:**
 - ⇒ Newsletter/HomeWise articles-
 - ⇒ Media articles, interviews-
 - ⇒ New Credit/Debt Curriculum
 - > Educator's Guide and Power Point slides/script
 - > Participant Materials
 - > Marketing Materials
 - ⇒ FCS Extension Faculty- In-service training implemented, evaluated
- **EXPECTED OUTCOMES:**
 - ⇒ **Process:** The Credit/Debt Management team will develop Idaho-specific educational materials, pilot-test them and present them to Extension educators. Participants will:
 - > List sources of their debt and interest rates for each debt;
 - > Determine how much credit/debt they can afford;
 - > Learn methods to build or repair a credit history;
 - > Understand how creditors determine credit worthiness and credit scores;
 - > Learn how to read a credit report;
 - > Know actions to take if they can't pay their bills;
 - > Become aware of agencies to assist them if they can't solve credit/debt problems.

3) **Project: Identity Theft Curriculum**

- **PLANNED OUTPUTS:**
 - ⇒ Curriculum Guide containing:

- > Lesson Plan
 - > Fact and Activity Sheets
 - > PowerPoint slides and script
 - > Evaluation tools
 - > Marketing materials
 - > FCS Extension educator In-Service training
- **EXPECTED OUTCOMES:**
 - ⇒ Curriculum produced and distributed
 - ⇒ Educators will gain knowledge, skills and resources to teach Identity Theft classes and write newsletter/newspaper articles
 - ⇒ Participants in Extension Identity Theft workshops will:
 - > Understand how identity theft occurs
 - > Determine which personal information they should share
 - > Methods to prevent identity theft
 - > Learn what to do if they're a victim
 - > Learn where to obtain help
 - > Learn about resources

4) Project: Welcome to the Real World (WTRW)

- **PLANNED OUTPUTS:**
 - ⇒ Packets of educational materials for students and school personnel- Jan. to May; Sept. to December
 - ⇒ 3 hours of classes in public and alternative schools- Jan. to May; Sept. to December
- **EXPECTED OUTCOMES:**
 - ⇒ Become aware of how education determines career choices and how career choices influence income
 - ⇒ Practice decision-making
 - ⇒ Increase knowledge and confidence in writing checks and recording purchases in a check register
 - ⇒ Gain an understanding of:
 - > prioritizing needs and wants
 - > budgeting
 - > use of debit cards
 - > credit cards or other type of pre-paid cards
 - > the importance of keeping good financial records
 - ⇒ Students will increase their understanding of basic financial literacy and ability to track expenses.
 - ⇒ A decrease in difficulty due to poor record keeping of personal checking accounts, and credit debt.
 - ⇒ Decrease in young individuals and/or couples having personal complications such as foreclosures on personal property, etc.

5) Project: High School Financial Planning Program (HSFPP)

- **PLANNED OUTPUTS:**
 - ⇒ Newsletter articles- Bischoff, FY 04
 - ⇒ Educator/Teacher/Credit Union personnel Training, - Bischoff, FY 04
- **EXPECTED OUTCOMES:**

- ⇒ Teachers/extension personnel/ youth leaders will realize the value of HSFPP curriculum
- ⇒ Teachers/ extension personnel/ youth leaders will use the HSFPP curriculum with high school classes/ youth groups
- ⇒ Students will be introduced to financial management knowledge and skills
- ⇒ Students will become aware of the following financial management concepts: establishing and prioritizing financial goals, earning an income, developing a budget, saving money, understanding the cost of credit, protecting assets, and the time value of money.
- ⇒ Students will practice the following skills: Set SMART goals, develop a personal spending record, analyze a pay stub, create a budget, compare credit card terms, compare the cost of automobile insurance, analyze how interest rates affect savings/investment growth.

6) Project: 4-H Financial Champions

- **PLANNED OUTPUTS:**
 - ⇒ Skillathons conducted in counties
 - ⇒ Newsletter articles
 - ⇒ Emails to county offices
- **EXPECTED OUTCOMES:**
 - ⇒ Educators/program assistants will promote *Financial Champions* curriculum in their counties
 - ⇒ 4-H youth will enroll in a *Financial Champions* project

7) Project: Succeeding in the Working World (SIWW)

- **PLANNED OUTPUTS:**
 - ⇒ 6 hours of training
 - ⇒ PowerPoint curriculum & handouts
 - ⇒ Evaluation instrument
 - ⇒ Newspaper Articles
 - ⇒ Submission for presentation at AAFCS family economics pre-conference
- **EXPECTED OUTCOMES:**
 - ⇒ Students will gain knowledge of work ethics and employability skills:
 - > Dependability, initiative, and interpersonal skills
 - > What employers want in an employee
 - > Making a positive first impression
 - > Completing applications and writing resumes
 - > Interviewing skills
 - > Skills needed to keep a job
 - ⇒ Students will gain interviewing skills through mock interviews.
 - ⇒ Students will develop resumes

8) Project: Give Me Credit

- **PLANNED OUTPUTS:**
 - ⇒ Packets of educational materials for students and school personnel-
 - ⇒ 2 hours of classes in public and alternative schools-
 - ⇒ Idaho Extension Impact Statement- District IV faculty
- **EXPECTED OUTCOMES:**

- ⇒ Learn about the rights and responsibilities of using credit;
- ⇒ Understand the advantages of paying off credit card / loan balances quickly;
- ⇒ Know how to evaluate credit card offers;
- ⇒ Know how to finance large purchases.

9) **Project: Legal Check-Up (LCU)**

- **PLANNED OUTPUTS:**
 - ⇒ Flyers, newspaper and newsletter articles, TV and/or radio interviews-educators; FY 04
 - ⇒ Legal Check-up Workshops-educators; FY 04
 - ⇒ Evaluation tools revised- Bischoff, Feb. 04
 - ⇒ Idaho Extension Impact Statement- Bischoff, educators; Fall 04
 - > Publication- Revise *Estate Planning: An Idaho Guide*- Bischoff, UI Law Professor- Liz Brandt, practicing attorney, Ag Communications; FY 04
- **EXPECTED OUTCOMES:**
 - ⇒ Participants will gain knowledge to improve their legal health.
 - ⇒ Participants will take actions addressed in the participant workbook and seminar. Examples:
 - > Draft/revise a Health Care Power-of Attorney and /or Health Care Surrogate Designation
 - > Draft/revise a living will
 - > Draft/revise a Durable Power-of-Attorney
 - > Draft/review a will and/or trust
 - > Change the names on their bank accounts or property
 - > Apply for benefits due to them and/or their family
 - > Secure copies of missing important legal documents
 - > Talk to their doctor/clergyman/lawyer
 - > Review their insurance policies
 - ⇒ Participants will make a detailed evaluation of the state of their legal health and report whether they've benefited emotionally and/or financially.
 - ⇒ Participants will share this information with others.

10) **Project: Transferring Non-Titled Property**

- **PLANNED OUTPUTS:**
 - ⇒ Who Gets Grandma's Yellow Pie Plate Workshops- educators, FY 04
 - ⇒ Participant Fact Sheets- WGGYPP curriculum, educators, FY 04
 - ⇒ Minnesota Extension WGGYPP evaluation revision- Bischoff and educators; March 04
 - ⇒ Evaluations collected, tabulated, reported to Bischoff- educators; Sept/Oct. 04
 - ⇒ Idaho evaluation data input to USDA FSLI evaluation site- Bischoff, Oct. 04
- **EXPECTED OUTCOMES:**
 - ⇒ become aware of the importance of identifying who gets untitled property
 - ⇒ make a list of personal items to be distributed.
 - ⇒ list recipients of non-titled property
 - ⇒ file non-titled property list/recipients with will or other important documents
 - ⇒ inform attorney and/or family member(s) location of the untitled property list
 - ⇒ share untitled property information with others.

11) **Project: Long Term Care Workshops**

- **PLANNED OUTPUTS:**
 - ⇒ Long term care workshops offered in each Extension district; FY 04
 - ⇒ Newsletter/newspaper articles- Bischoff and educators; FY 04
 - ⇒ Guidelines for offering Long Term Care Workshops- Bischoff; April 04
- **EXPECTED OUTCOMES:**
 - ⇒ 300 Idaho residents will participate in Long Term Care workshops
 - ⇒ Develop Extension partnerships with Idaho agencies and personnel who provide services to elders
 - ⇒ Participants will:
 - > become aware of care options
 - > increase their knowledge of costs of long-term care
 - > increase their knowledge of financing options for long-term care
 - > become aware of advantages and disadvantages of long term care insurance
 - > gain knowledge of how to select care facilities or in-home caretakers

12) **Project: Retirement Planning Workshops**

- **PLANNED OUTPUTS:**
 - ⇒ Retirement Planning Extension Educator training
 - ⇒ PERSI
 - ⇒ Federal retirement consultant
 - ⇒ TIAA-CREF
 - ⇒ Valic, April 04
 - ⇒ Publication: *Your Retirement Income*; Bischoff, Healy; Jan.-March 04
- **EXPECTED OUTCOMES:**
 - ⇒ gain increased understanding of their retirement options and their existing pensions
 - ⇒ determine their retirement income needs
 - ⇒ gain knowledge of retirement planning resources
 - ⇒ develop a plan to achieve retirement income goals

B. Individual and Family Development Topic Team

1) **Project: Basic Parenting**

- **PLANNED OUTPUTS:**
 - ⇒ Brochures and information for the media.
 - ⇒ Parent education workshops.
- **EXPECTED OUTCOMES:**
 - ⇒ Upon completion of the course, parents will report that they have increased their knowledge of child development, their ability to care for their children, their confidence in their parenting skills, and will have made changes to their behavior. An evaluation instrument is currently available which has demonstrated these outcomes for parents who have been trained in this curriculum. Planned evaluation will measure short term outcomes of the program.

2) **Project: Parenting Apart**

- **PLANNED OUTPUTS:**
 - ⇒ Workshops for separated and divorced parents.

- **EXPECTED OUTCOMES:**
 - ⇒ Upon completion of the course, parents will report that they better understand the challenges of divorce for their children and the importance of shielding their children from parental conflict. They will also have learned ways to help their children adjust to divorce and strategies for working with their children's other parent. In addition, parents will report behavior change based on the course. An existing evaluation instrument has shown these changes for past participants in this workshop series. Planned evaluations will be immediate short-term.

3) Project: Married and Loving It

- **PLANNED OUTPUTS:**
 - ⇒ Married and Loving It! Workshops.
- **EXPECTED OUTCOMES:**
 - ⇒ Upon completion of the course, participants will report increased knowledge about the important factors for relationship success, new strategies for strengthening their relationship with their partner, and adoption of new behaviors to build a stronger couple relationship. At this point, immediate short-term data are available demonstrating many of these effects, and some mid-term data have been collected as well. The proposed plan to enhance the evaluation for this program would improve the short-term evaluation scheme and would develop a strong plan for evaluating mid-term outcomes of the program.

4) Project: Out of School Care

- **PLANNED OUTPUTS:**
 - ⇒ Out of school care programs.
 - ⇒ Program enhancements for out of school care programs.
 - ⇒ Training for out-of-school care providers.
- **EXPECTED OUTCOMES:**
 - ⇒ Surveys of parents and children in out of school care programs will assess program satisfaction and what has been learned in the program. Measures of school performance such as grades and teacher ratings of homework completion and class participation can assess the effect on academic success. These evaluations can be immediate/ short-term as well as mid-term.
 - ⇒ Training and program enhancements for out of school care providers will be assessed through surveys of care providers. Evaluations will be immediate and short-term.

5) Project: Work and Family

- **PLANNED OUTPUTS:**
 - ⇒ Sales of the *Navigating Work and Family* series.
 - ⇒ Workshops on work and family life.
- **EXPECTED OUTCOMES:**
 - ⇒ The goal of this project is to promote adoption and use of the *Navigating Work and Family* handout series. We will measure our success by sales information, and by surveying those who buy the series about how they have used it and what its impact has been. This will generally be mid-term outcome evaluation. Workshops will be evaluated using post-event surveys.

6) **Project: Parents as Teachers**

- **PLANNED OUTPUTS:**
 - ⇒ Program continuation, including personal visits to families, parent group meetings, screenings and referrals.
 - ⇒ Continued development of a comprehensive evaluation scheme for the program.
 - ⇒ Workshops and presentations for professionals on the early childhood years, and on the evaluation outcomes.
 - ⇒ Easy to use handouts about PAT in Idaho.
 - ⇒ Series of lesson plans for parent meetings, appropriate for PAT programs as well as other programs serving parents of children from 0-5 years of age.
 - ⇒ Analysis of literacy content in the PAT curriculum.
- **EXPECTED OUTCOMES:**
 - ⇒ Parents as Teachers is a program designed to increase parent understanding of their children and strategies to help them learn. Through increased involvement of parents, children should be well prepared to enter school. Evaluations are currently in place, or in the process of development to measure each of these outcomes. Assessments at this time are short-term, but we will include mid-term evaluations in the near future.

7) **Project: Grandparents**

- **PLANNED OUTPUTS:**
 - ⇒ Grandparenting publications
 - ⇒ Support group meetings
 - ⇒ Workshops on grandparents raising grandchildren to introduce the publications to relevant professionals
- **EXPECTED OUTCOMES:**
 - ⇒ The publication project will be assessed through sales information, and through a follow-up survey to see how the brochures were used and what impact they had. The support groups will be assessed through surveys of short term/immediate impact.

8) **Project: Civil Society**

- **PLANNED OUTPUTS:**
 - ⇒ Meeting of campus scholars in diversity related fields, Moscow, ID - February, 2004
 - ⇒ Meeting of stakeholders including related organizations and businesses, Boise, ID April-May, 2004
 - ⇒ Initial course offering, Idaho's Journey for Human Rights, Fall 2004 or Spring 2005
 - ⇒ Expansion of Extension programming to new audiences
 - ⇒ BaFa BaFa workshops - simulation in intergroup relations
- **EXPECTED OUTCOMES:**
 - ⇒ Participants would increase knowledge of the history of human rights in Idaho
 - ⇒ Participants would serve as community resources on human rights

9) **Project: Life Skills**

- **PLANNED OUTPUTS:**

- ⇒ Workshops
- ⇒ Newsletter articles
- **EXPECTED OUTCOMES:**
 - ⇒ Participants will increase in knowledge about the life skill topic presented and will plan to adopt one or more behaviors based on the training. Outcomes will be measured by a survey at the end of the workshop.
 - ⇒

10) Project: Evaluating Parenting Programs

- **PLANNED OUTPUTS:**
 - ⇒ Parenting Workshops
 - ⇒ Parenting Handouts
 - ⇒ Grandparent support groups
 - ⇒ Analyzed data from evaluations
 - ⇒ Assessment of programs based on evaluation outcomes
 - ⇒ Parent to Parent: Meetings for parents of young children - 10 to 12 lesson plans
 - ⇒ Impact statements as appropriate
- **EXPECTED OUTCOMES:**
 - ⇒ Parenting programs that best meet parents' needs
 - ⇒ Stronger parenting skills in participating families

c. Youth Development/4H Topic Team

11) Project: Accessibility of 4-H Materials Through Technology

- **PLANNED OUTPUTS:**
 - ⇒ Web site available to Extension Educators and Extension clientele. Example of items to be located on the website:
 - > Idaho 4-H Record Books
 - > Project related skills checklists
 - > Idaho 4-H Project Requirement Handbook
 - > Health Release Forms
 - > Photograph Release Forms
 - > Release Forms for Camps etc.
 - > Enrollment Forms
 - > Volunteer Screening Forms
 - > Applications
 - > Reference Forms
- **EXPECTED OUTCOMES:**
 - ⇒ Increase participant's (leaders, members, faculty and staff) technology skills.
 - ⇒ More knowledgeable record book completion.
 - ⇒ Attitudes about record books will change and there will be increased willingness to complete record books
 - ⇒ There will be changes in record book policies and fee structures.
 - ⇒ Save money, paper and frustration
 - ⇒ Greater completion of record books
 - ⇒ Better completion of all necessary forms.

12) Project: Expand 4-H Youth Development Programs to Reach New Audiences

- **PLANNED OUTPUTS:**
 - ⇒ Share the findings of the 4-H IMPACT Study to let parents and school personnel know the benefits of participating in 4-H
 - ⇒ Adopt a consistent slogan and logo to be used on all 4-H communication pieces for 3-5 years
 - ⇒ Work with local 4-H Youth Development Promotion and Expansion Committee to develop marketing strategies to reach underserved audiences
 - ⇒ Select limited number of high quality school enrichment programs and after school programs and show how they meet state educational standards and then promote these specific programs to school personnel
 - ⇒ Recruit and train volunteers who specifically want to deliver 4-H youth development programs in partnership with schools
 - ⇒ Staff displays and provide workshops at teacher in-service and state conferences to showcase and promote 4-H school enrichment and after school programs
 - ⇒ Seek funding to support 4-H youth development programs that are delivered in partnership with schools
- **EXPECTED OUTCOMES:**
 - ⇒ Marketing efforts will result in a 10% increase in number of youth involved in 4-H youth development programs
 - ⇒ Marketing efforts will result in a 5% increase in number of volunteers involved in 4-H youth development programs
 - ⇒ Partnerships with schools will be enhanced resulting in a 10% increase in number of schools requesting 4-H school enrichment and/or after school programs
 - ⇒ An active 4-H Youth Development Promotion and Expansion Committee in every county

13) Project: Strengthen Families and Communities Through Positive Youth Development Programs

- **PLANNED OUTPUTS:**
 - ⇒ Comprehensive handbook to guide volunteer leaders
 - ⇒ Orientation session for all new 4-H parents
 - ⇒ Code of Conduct for Staff, Volunteers, Parents and Youth
 - ⇒ Active local youth coalitions
 - ⇒ Local programs designed on findings of local needs assessments
 - ⇒ Opportunities for youth to get involved in leadership roles and service learning
 - ⇒ Positive Youth Development Institute (taught in Idaho by faculty/staff who attended the Western Region Positive Youth Development Institute in Utah)
- **EXPECTED OUTCOMES:**
 - ⇒ Active youth coalitions responding to local needs of youth
 - ⇒ Communities that provide healthy environments for positive youth development
 - ⇒ Cooperative and effective parent involvement
 - ⇒ Family friendly policies that encourage inclusion and participation
 - ⇒

14) Project : Develop Leadership in Youth and Adults

- **PLANNED OUTPUTS:**
 - ⇒ Provide training on new "Step Up To Leadership" curriculum
 - ⇒ Leadership development conferences for youth and adults
 - ⇒ Provide training for all volunteers annually
 - ⇒ Training on Youth/Adult Partnerships
 - ⇒ Training on How to be a Mentor
 - ⇒ Share results of 4-H IMPACT Study with public
 - ⇒ Work with Curriculum Advisory Team to evaluate and update curriculum regularly to assure high quality, research based, and culturally sensitive materials are being used
 - ⇒ Expand Curriculum Advisory Team to represent diverse audiences, youth, and areas of expertise needed
 - ⇒ Make curriculum and forms available electronically where appropriate
 - ⇒ Increase use of interview judging to allow youth to demonstrate learned skills
- **EXPECTED OUTCOMES:**
 - ⇒ Increased opportunities for youth and adults to develop and use their leadership skills to benefit 4-H youth development programs and their communities
 - ⇒ Safe, comfortable learning environments for youth and adults
 - ⇒ Up-to-date, high quality, research based, and culturally sensitive curriculum
 - ⇒ More curriculum available in electronic formats
 - ⇒ Evaluation tools for measuring changes in leadership skills
 - ⇒

15) Project: Expand Resources to Support 4-H Youth Development Program

- **PLANNED OUTPUTS:**
 - ⇒ Training on core competencies needed to be a youth development professional
 - ⇒ Training on 4-H Policies and Procedures for paid staff and volunteers on such subjects as: positive youth development, mentoring, conflict management, youth/adult partnerships etc.
 - ⇒ Incentives and recognition for paid staff and volunteers
 - ⇒ Fundraising training for faculty, staff and volunteers (youth and adult)
 - ⇒ Case statement and other resources for raising funds
 - ⇒ Staffing plan for 4-H Coordinator in every county
 - ⇒ Training on writing grants
 - ⇒ Completed grant proposals
- **EXPECTED OUTCOMES:**
 - ⇒ Adequate human resources to plan, coordinate, implement and evaluate 4-H youth development programs
 - ⇒ Adequate number of volunteers to optimize growth of 4-H youth development program
 - ⇒ Adequate financial resources to carry out high priority 4-H youth development programs

D. Community Development Topic Team

1) Project: Economic Development

- **PLANNED OUTPUTS:**

- ⇒ **Workshops, classes and programs:** Venues and delivery methods vary according to community need and subject matter. Individual or small team consultations will be conducted as needed.
 - ⇒ **Training and educational materials:** May include curricula, videos, facilitation guides, journal and bulletin articles and presentations at conferences or to civic groups.
 - ⇒ **General information and results of analyses:** Provided on a project by project basis by UI Extension faculty to community leaders and personnel involved in community economic development and economic development planning .
 - ⇒ **Educational materials:** May include curricula, videos, journal and bulletin articles and presentations at conferences or to civic groups.
- **EXPECTED OUTCOMES:**
- ⇒ **Extension Faculty will extend community economic development services and information.**
 - ⇒ **Projects and programs will be structured as a platform for creating strategic partnerships with other entities in order to maximize resources available in Idaho for community economic development activities.**
 - ⇒ **Rural community leaders and local business managers-entrepreneurs will gain awareness of how community economic development is defined and how UI Extension and other service providers can assist with economic development efforts.**
 - ⇒ **Increased level of community economic development efforts, including expanded programs and more workshops and local projects.**
 - ⇒ **Enhanced capacity among rural community leaders to initiate and implement community economic development activities.**
 - ⇒ **Improved quality of life, including enhanced economic activity and local leadership capacity.**
 - ⇒ **Better understanding on the part of rural entrepreneurs about risks and likelihood of success associated with new business ventures.**
 - ⇒ **Strategic partnerships among UI and other community economic development service providers resulting in a greater capacity to sustain and expand resources devoted to community development in Idaho.**

2) Project: Physical Infrastructure Development

- **PLANNED OUTPUTS:**
- ⇒ **General information and results of analyses, provided, on a project by project basis, by UI Extension faculty to community leaders and personnel involved in providing community services to community residents.**
 - ⇒ **Educational materials which may include curricula, videos, journal and bulletin articles and presentations at conferences or to civic groups.**
- **EXPECTED OUTCOMES:**
- ⇒ **There are no short term plans to dedicate substantial resources to this project area. However, CALS personnel do have expertise and experience with physical infrastructure issues, and some requests for work in this area are received. As efforts are made to respond to these requests, communities and their residents will benefit from better informed decisions by their community leaders and personnel relative to community physical infrastructure issues.**
 - ⇒ **Increased requests from clientele for physical infrastructure project efforts by CALS personnel.**
 - ⇒ **Improved quality of life, including better and more cost effective community services, enhanced economic activity and local leadership capacity.**

- ⇒ Strategic partnerships among UI and other community development service providers resulting in a greater capacity to sustain and expand resources devoted to community development in Idaho.

3) Project: Social and Organizational Infrastructure Development

- **PLANNED OUTPUTS:**

- ⇒ *Workshops, classes and programs:* Venues and delivery methods vary according to community need and subject matter. Individual or small team consultations will be conducted as needed.
- ⇒ *Training and educational materials:* May include curricula, videos, facilitation guides, journal and bulletin articles and presentations at conferences or to civic groups.

- **EXPECTED OUTCOMES:**

- ⇒ Extension Faculty will extend community development services and information.
- ⇒ Projects and programs will be structured as a platform for creating strategic partnerships with other entities in order to maximize resources available in Idaho for community development activities.
- ⇒ Residents in rural communities will gain awareness of how community development is defined and how UI Extension and other service providers can assist with community development efforts.
- ⇒ Increased level of community development efforts, including expanded programs, more workshops, and more people involved in community development activities.
- ⇒ Enhanced capacity among rural residents to initiate and implement community-development activities.
- ⇒ Improved quality of life, including enhanced economic activity, local leadership capacity and youth development.
- ⇒ Strategic partnerships among UI and other community development service providers resulting in a greater capacity to sustain and expand resources devoted to community development in Idaho.