University of Idaho Combined Research and Extension Plan of Work
2021-2025

Status: Final
Date: 08/14/2020

I. Plan Overview

1. Executive Summary

2020 University of Idaho Combined Research and Extension Plan of Work

I. Plan Overview

a. Executive Summary

In 2018, University of Idaho Extension reorganized 15 program topic teams into a new structure called ‘Priority Extension Themes’ (PETs). The new structure reduces the number of program teams from 15 to 7 PETs. With the current changes in NIFA Plan of Work (POW) guidelines, PETs are listed as Critical Issues in this 2020-24 POW. The terms Critical Issue and PETs are used interchangeably throughout the document.

Priority Extension Themes - PETs emerged as a result of 2016 statewide needs-assessment listening sessions in which data were collected from various stakeholders regarding the needs and issues of Idaho communities. Similar issues were grouped together and categorized into 7 different ‘Priority Extension Themes.’ Each PET corresponds with one (or more) of the 9 Science Emphasis areas identified by NIFA as national priorities. The goals of restructuring 15 program teams into 7 PETs are to better align programs and products with stakeholder needs, to deliver those programs in ways that best meet customer preferences, and to maximize statewide operational efficiency. The PET structure facilitates the opportunity to demonstrate Extension’s public value to our stakeholders serving them with need-based educational programs as well as return on investment (ROI) to the communities.

The 2020-24 POW includes the individual plan of work developed by each of the 7 PETs. In this POW, PET plans have been assembled to represent our best approximation of program development and delivery. Development of each PET was faculty driven, and faculty contributing to this plan of work include a) Extension specialists with joint extension and research appointments, b) research scientists with full research appointments, c) faculty with joint research and extension or teaching appointments, and d) county Extension educators with extension appointments.

PETs also align with signature programs established in 2005 by University of Idaho’s College of Agricultural and Life Sciences (CALS), UI Extension, and the Idaho Agricultural Experiment Station (IAES). The CALS signature program areas include 1) Environmentally and Economically Sustainable Crop and Livestock Integrated Systems; 2) Animal, Plant and Human Disease Prevention; 3) Agricultural and Food-Based Process and Product Innovation; 4) Managing Soil, Water, Air and Biological Resources; 5) Human Health, Nutrition and Food Safety, Disease Prevention; 6) Urban Environment and Small Acreage Agriculture; 7) Youth Education and Development; 8) Individual and Family Well-Being; and 9) Community Development.

Specific outputs and outcomes described in this POW represent approximately 60% of total FTEs invested in Idaho research and 80% of total program FTEs in Extension, as faculty are not expected to plan 100% of their activities for five years.

The names of 7 PETs listed under the Critical Issue section of this POW are 1) Food Production Systems, 2) Horticulture and Small Farms, 3) Community Development, 4) Forest, Range, and other Natural Resources, 5) Health and Wellness, 6) Water, and 7) 4-H Community Youth Development.
2. FTE Estimates

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II. Merit / Peer Review Process

II. Merit Review Process

a. Process employed in 5-yr cycle

Internal University Panel  
External University Panel  
External Non-University Panel  
Combined External and Internal University Panel  
Expert Peer Review  
Other (administrative review)

b. Brief Explanation

Priority Extension Teams discuss priorities/programs and include those with research appointments. PETs submit grant applications per priorities/outcomes to address critical issues.

Faculty with research appointments have active research projects. Hatch projects are expected to address Idaho’s problems, have a regional/national scope and are reviewed by minimum of two colleagues within the same area of research, department heads and a minimum of two external experts in the area.

IAES research contributing to multistate projects are categorized as various types defined by State Agricultural Experiment Station System. Multi-state projects are reviewed by max of four outside peer reviewers and the overall regional multi-function committee. Multi-state Review Committee reviews initial proposals, makes recommendations and transmits the project to CSREES.

Faculty develop position descriptions outlining major programs. Merit and programs are reviewed through tenure and promotion by a panel at years 3, 5, 10 etc. Panels may conduct further review and include commodity interests, agency personnel and stakeholders.

III. Evaluation of Multis & Joint Activities

a. How planned programs address critical issues of strategic importance, including those identified by the stakeholders

Planned programs address issues through multidisciplinary education intended to change behavior. Research target areas overlap with those but will be covered by research activities/techniques.

b. How planned programs address needs of under-served/under-represented state populations

Policies for civil rights compliance/diversity inclusion outlines our process to reach underserved populations. We pursue
their input; faculty monitor effectiveness to reach these audiences and when balanced participation is not achieved, take further steps.

We develop programs for Spanish-speakers, hire Spanish-speaking staff, and gather insights from Hispanic audiences. We employ three faculty members integrated in Extension and housed on reservations through the Federally Recognized Tribes Extension Program.

Research programs target Hispanic/Native American populations and influences issues affecting these populations.

c. How planned programs describe expected outcomes/impacts

PETs list expected outcomes, indicators to measure success, and types of evaluation studies needed to assess outcomes/impacts; they report outcomes in annual reports, impact statements and other appropriate publications.

Researchers report findings in referred journals, through participation in discipline-based regional/national conferences and report significant advances in development of new intellectual properties.

d. How planned programs result in improved program effectiveness

PETs identify common priorities; share workloads; and coordinate resources to reduce redundancy and achieve best impacts. IAES and Extension admin closely monitor progress/resource needs of each PET.

III. Stakeholder Input
1. Actions to Seek
IV. Stakeholder Input

a. Actions taken to seek stakeholder input that encourages their participation

Use of media to announce public meetings and listening sessions

Targeted invitation to traditional stakeholder groups

Targeted invitation to non-traditional stakeholder groups

Targeted invitation to traditional stakeholder individuals

Targeted invitation to non-traditional stakeholder individuals

Targeted invitation to selected individuals from general public

Survey of traditional stakeholder individuals
Brief explanation.

The most effective approach is to involve stakeholders in the planning and delivery of research and Extension programs. To encourage participation by larger numbers of collaborators, we solicit assistance from stakeholder representatives and advocates to help us advertise and promote participation opportunities. While CALS has long included statements of inclusiveness on program announcements, recent mass media campaigns have helped expose large numbers of non-traditional stakeholders to this commitment.

In securing inputs from research and Extension stakeholders, we will encourage participation by both traditional and non-traditional stakeholders by providing venues that are convenient, economical, and efficient. This will be accomplished by making CALS off-campus video conferencing facilities available, as well as increased use other forms of electronic communications. Selection and eventual invitation of targeted individuals to serve on key stakeholder groups will be accomplished in context of securing representation of Idaho’s diverse population and stakeholder interests. Examples of such stakeholder groups include the Dean’s Advisory Board, UI Extension Advisory Board, unit advisory boards, and UI Extension citizens’ advisory groups.

2. Methods to Identify
b(i). A brief statement of the process that will be used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

Method to identify individuals and groups

Use Advisory Committees

Use Internal Focus Groups

Use External Focus Groups

Needs Assessments

Use Surveys

Research/Extension interactions

Industry-based interaction

Brief explanation.

Specific methods utilized to identify stakeholder individuals and groups:
The Dean's Advisory Board, comprised of stakeholder representatives from government, industry, and educational institutions in Idaho. Members are recruited by an invitation and selection process that encourages broad participation representative of Idaho's population diversity, including both traditional and non-traditional stakeholders.

The seven CALS academic departments have stakeholder advisory boards. Members are recruited by an invitation and selection process that encourages broad participation representative of Idaho's population diversity, including both traditional and non-traditional stakeholders.

UI Extension's Advisory Board consists of representatives from each of the four administrative districts geographically located through the state. The members represent and provide input on matters related to agriculture, family and consumer sciences, natural resources, community development, and youth development.

UI Extension has citizen advisory groups in 42 of Idaho's 44 counties which represent a broad mix of public interests from the county perspective.

Idaho's 17 agricultural commodity commissions and organizations are selected by industry representatives with approval by state government officials.

Extension newsletters and other communication materials are sent to every household in some counties, and everyone is invited to provide input and to participate in programs.

When stakeholder groups can be narrowly defined, UI Extension often collaborates with state and local agencies and organizations whose missions overlap. For example, to reach more seniors, UI Extension has collaborated with AARP and the Agencies on Aging.

IAES researcher and Extension faculty conduct several major commodity schools and "field days" annually in the state. These events are highly advertised through numerous media outlets and attended by stakeholders from Idaho and the region.

3. Methods to Collect
b(ii). A brief statement of the process that will be used by the recipient institution to identify individuals and groups who are stakeholders and to collect input from them

Methods for collecting Stakeholder Input

Meeting with traditional Stakeholder groups
Meeting with traditional Stakeholder individuals

Survey of traditional Stakeholder individuals

Meeting with the general public (open meeting advertised to all)

Survey of the general public

Meeting specifically with non-traditional individuals

Other (various)

Brief explanation.

Input from stakeholders is collected in person through advisory committee meetings, through surveys conducted at many Extension events and activities, and through direct conversations with interest groups and other organizations. Periodic surveys are conducted for specific topic areas using random sampling techniques as well as listening sessions are conducted around the states to identify broader needs (e.g., 2016 statewide listening session). Data are also collected through random sampling for statewide issues periodically, and individual programs are frequently concluded with an evaluation that includes an opportunity for stakeholders to provide recommendations for future programs.

4. How Considered
c. A statement of how the input will be considered

In the Budget Process to Allocate Funding

To Identify Emerging Issues

Redirect Extension Programs

To Determine Projects

To Set Priorities

In the Action Plans

To Develop Position Description and Hiring Staff

Brief explanation
Stakeholder inputs are used to formulate overall CALS research and Extension strategic goals, as well as the goals and directions of individual PET programs. After receiving input from stakeholders as described in sections b(i) and b(ii), the appropriate administrative group or PET will plan for short-term and long-term objectives and provide resources accordingly. Acquiring input is documented and formally considered by PETs as a part of the priority setting and planning processes for programs and must be included as a part of applications for critical issues Extension grants and other awards available through the state office. UI Extension has worked to increase the Spanish-language skills of staff, through both training and hiring to build capacity to reach underserved stakeholders.

A 2009 task force made 5 specific recommendations for Extension to consider, including to conduct a process to re-prioritize our efforts. During 2010, Extension gathered input from two distinct groups of stakeholders to consider during the re-prioritization process. Those activities resulted in the elimination of two programs and in the integration of seven previously independent programs into three programs. The 2020-24 plan of work reflects the reorganization of 15 topic teams down to 7 PETs based on the statewide listening sessions held in 2016.

IV. Critical Issues

1 Food Production Systems
Description:
Idaho is the 4th largest agricultural economy in the U.S., with 25,000 farms and ranches, producing 185 commodities. Agricultural cash receipts are close to $7.1 billion and agribusiness contributed $20.6 billion in sales; 128,200 Idaho jobs; and $3.7 billion in wages. As Idaho's population shifts from rural to urban, a general lack of understanding and knowledge about agriculture is threatening the food industry. Weather changes, such as drought, have affected producers' production capabilities. Markets for food products and food-related byproducts constantly changing. Adoption of new technologies and practices is affected by producer apathy, a general resistance to change, and producers' limited funds for investment. To address the current and emerging challenges of Idaho agriculture, Extension efforts will focus on scientific research and objective empirical evidence and will be made available for implementation by all pertinent Idaho agriculture stakeholders, including producers and affiliated agribusinesses, government support agencies, and allied industries. To achieve production efficiency, farm profitability, and sustainability, the educational programs that will be offered to farmers and ranchers include farm business and rangeland management, forage crop systems, nutrient management, variety trials, crops/livestock quality assurance, cereals and pulses production, cover crops and soil health, drought assessment, alternative/specialty crops, pest management, livestock efficiency, economic evaluation of livestock & agricultural systems, beef schools, forage schools, range-in-school, and grazing academy.

Term: Long

Science Emphasis Areas
Sustainable Agricultural Production Systems

2 Horticulture and Small Farms
Description:
This critical issue addresses sustainable food and ornamental plant production and scale-appropriate residential land-use practices appropriate for both commercial and general public audiences, including youth. These diverse yet interconnected programs and activities are targeted to meet the needs of home and community gardeners, residential and small acreage landowners, urban, peri-urban and rural small-scale specialty crop and livestock producers, landscape and nursery industry professionals, and supporting industries and organizations. Audience needs will be met by the development and delivery of adaptive, wide-ranging, creative research, education and outreach solutions.

Term: Long
Science Emphasis Areas
Sustainable Agricultural Production Systems

3 Community Development
Description:
The community development critical issue focuses on creating sustainable social and economic systems in Idaho through human, social, cultural, and physical capital development. The most critical capital the rural communities hold is their people. People define the community's businesses, farms, organizations, and government, but—above all—their capacity to innovate. To provide learning opportunities that transform the lives of people and their communities, it will offer programs in the area of civic engagement, conflict management, and communication, community assessment, local/regional art, food & heritage development and promotion, community coaching for grass root actions, adult entrepreneurship training, business creation and expansion, and rural leadership development.

Term: Long

Science Emphasis Areas
Education and Multicultural Alliances

4 Forest, Range, and other Natural Resources
Description:
This PET will provide innovative, research-based, educational opportunities which engage diverse stakeholders and citizens to help them better steward Idaho's forests, rangelands, and other natural resources in the context of changing Idaho demographics and environment. We will improve participants' knowledge and actions, help landowners and managers apply sustainable management practices, and increase economic opportunity. We will also help Idaho adults and youth participate more effectively in natural-resource policy discussions.

Term: Long

Science Emphasis Areas
Bioeconomy, Bioenergy, and Bioproducts
Environmental Systems

5 Health and Wellness
Description:
This critical issue offers healthy living, food safety, and resource management programs targeting various dimensions of wellness, including physical, social, emotional, financial, intellectual, and occupational wellness. It will provide healthy living education through several initiatives across the state: 4-H healthy living programming and curricula, 4-H healthy living teen advocates, well-connected communities program, Eat Smart Idaho (SNAP-ED/EFNEP), and UI Family and Consumer Science programs. The University of Idaho Extension will provide food safety knowledge and information developing Master Food Safety Advisors to volunteer and extend their outreach. Educators and volunteers will meet community needs by delivering experiential food preservation and cooking classes, evidence-based Extension publications, digital web-based information, and providing “just in time” food safety information through answered phone calls. They will reach nearly 3,000 youths annually with effective and simplified hand-washing instruction. In addition, Ready Set Food Safe programming instructors will provide food safety certificates to more than 2,000 high school students from approximately 40 high schools to help teens get a job in the food industry.

Term: Long
6 Water
Description:
Water security refers to the reliable availability of sufficient quality and quantity of water to sustain human health, livelihoods, and the environment. The water PET will focus on teaching and researching about managing uncertainty and about systems management for multiple benefits. An essential element is the development of watershed and systems thinking/modeling for reducing uncertainty and increasing resilience/robustness. The program offered to the public will focus on improving social-ecological resilience and water system robustness, protecting and improving water supply reliability, understanding and applying effective water demand management, and building the community's capacity to manage water, soil, and air resources/systems under conditions of increasing uncertainty and variability.

Term: Long

Science Emphasis Areas
Education and Multicultural Alliances
Environmental Systems
Sustainable Agricultural Production Systems

7 4-H Community Youth Development
Description:
4-H Youth Development is focused on strengthening youth and families across Idaho. 4-H will continue to create positive learning environments based on the 4-H Essential Elements of belonging, independence, generosity, and mastery. The 4-H Youth development team, composed of educators, staff, and volunteers will work on the following topics: 4-H Science, Healthy Living, Volunteer, and Adult Leadership Development, Youth Leadership and Citizenship, Reaching Underserved Audiences.

Term: Long

Science Emphasis Areas
Youth Development