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MISSION STATEMENT

The Pacific West Area includes the states of California, Hawaii, Idaho, Oregon, Washington, Nevada, Arizona and Alaska. The Area Director is responsible for the management, implementation, coordination and evaluation of research designed to implement programs, as recommended in the approved operational plan. The Area Director participates in the development of a complex national strategic plan for agricultural research in the Agency and assures the plan is executed with a view to coordination, cooperation and integration of research with associated interests in land-grant organizations, with Federal agencies, other public entities, and institutions in the private and international sector.

PACIFIC WEST AREA

USDA, ARS, PWA
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MISSION STATEMENT

Provides a comprehensive administrative management program to support the Pacific West Area's multi-disciplinary research programs. The Area's administrative management program encompasses the full range of functions, including personnel and resource management; budget formulation, execution and financial management; foreign and domestic travel management services; procurement and contracting program; extramural research agreements program; personal property management; warehouse operations and support; records management; real property management, space management; safety, occupational health and environmental protection programs; telecommunications (voice and data).

ABERDEEN, ID

USDA/ARS/PWA
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MISSION STATEMENT

The location's research programs focus on potato and small grains germplasm improvement and on increasing production efficiency in rainbow trout through the use of grain-based feeds. This work is accomplished through genetics and breeding research with trout, potato, barley, and oat as well as through 1) maintaining, evaluating, and distributing germplasm stocks, 2) research to improve breeding efficiency and to identify valuable new targets for germplasm enhancement, and 3) research on trout genetics, physiology, and nutrition.

ABERDEEN, ID

USDA/ARS/PWA

SMALL GRAINS AND POTATO GERMPLASM RESEARCH CENTER - HAGERMAN

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MISSION STATEMENT

The mission of the Aberdeen location Support Unit is to plan, implement, and direct the locations administrative and financial management program. The Aberdeen, location support staff is continually challenged with finding ways to get the job done in effective and efficient ways while remaining within established rules, regulations, and guidelines. We are committed to delivering excellent support services to our scientists and support technicians located in Aberdeen, Hagerman, and Bozeman. Our objectives are in the areas of Administrative Management, Human Resource Management, Budgetary and Procurement Functions, and Specialization in Agreements to include: SCA, RSA, Reimbursable, Trusts, Interagency, and CRADAs. We also provide support services in Time and Attendance, Travel, Safety, Property and Facilities Management.

The mission of the Aberdeen Facilities Management Staff is to maintain, repair, and monitor the location's facilities and assets. The Facilities staff is continually working with deferred maintenance and new construction projects. We are also constantly maintaining our landscapes, and providing a clean and safe environment. Additionally, we are maintaining daily the facilities, and are committed to providing a well maintained facility.

ALBANY, CA
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MISSION STATEMENT

The Western Regional Research Center conducts a mission-oriented research to enhance the healthfulness of foods; to develop new food and industrial products from renewable resources; and to protect and enhance the quality of the environment. The results of these research efforts are implemented through the effective transfer of new and innovative technologies to appropriate clients and users.

ALBANY, CA

USDA/ARS/PWA

PROCESSED FOODS RESEARCH UNIT

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ALBANY, CA

USDA/ARS/PWA

PROCESSED FOODS RESEARCH UNIT (cont'd)

800 Buchanan Street
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MISSION STATEMENT

The mission of the Processed Foods Research Unit is to enhance marketability and healthfulness of agricultural commodities through processing and biotechnology. Cereal grains, legumes and economically important fruits and vegetables are the focus of this research. Both fundamental and applied research approaches are used to solve problems and develop new value-added products which will benefit the consumer, producer, economy and environment. Fundamental food properties, nutritional attributes and consumer preferences are important considerations. Research approaches are multidisciplinary and are integrated with other ARS programs. Several aspects of the program respond to the needs of Action Agencies. The unit works closely with many outside partners including commodity organizations, universities and industrial companies to transfer technologies that are developed into commercialization.

ALBANY, CA

USDA/ARS/PWA
CROP IMPROVEMENT AND UTILIZATION RESEARCH UNIT
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ALBANY, CA

USDA/ARS/PWA
CROP IMPROVEMENT AND UTILIZATION RESEARCH UNIT (cont'd)
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MISSION STATEMENT

The Crop Improvement and Utilization Research Unit conducts research to enhance agronomic properties and end-use quality of crop plants. Research goals are accomplished by development of new technologies that integrate biochemical and molecular approaches with biotechnological strategies. Crops include cereals (wheat, rice, and barley), vegetables (potato), oilseeds (castor, Lesquerella) and rubber crops (guayule, Russian dandelion, Hevea).

Research priorities include molecular analysis of effects of environment on wheat flour quality and allergenic potential and production of wheat germplasm with enhanced baking quality; development of molecular tools to minimize risk in genetically engineered crops and practical application of molecular genetics for improved vegetables; and development of a domestic source of industrially useful oils and natural rubber.

ALBANY, CA

USDA/ARS/PWA

GENOMICS AND GENE DISCOVERY RESEARCH UNIT

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ALBANY, CA

USDA/ARS/PWA

GENOMICS AND GENE DISCOVERY RESEARCH UNIT (cont'd)

800 Buchanan Street
Albany, CA 94710-1105

MISSION STATEMENT

The mission of the Genomics and Gene Discovery Research Unit is to apply genomics, molecular biology, and bioinformatics to the improvement of agriculturally and economically important plants. The Unit relates new knowledge from these approaches to the biochemistry, development, physiology, and field behavior of crop plants. This research seeks to enhance the value, quality, and performance of plants producing foods, feeds, fibers, biofuels, and biomaterials. Specific goals include the understanding of global patterns of gene expression in the Triticeae crops (wheat, barley, and rye), the identification of genes conferring favorable quality and agronomic traits, the study of the mode of action of those genes, the understanding of the structure of crop genomes, the maintenance and development of publicly available computer databases and Internet resources, the development of genetic markers for plant breeding and research, and the engineering of improved crop plant traits. Interaction with the broader scientific community through activities such as bioinformatics resources is integral to the Unit's objectives. The Unit interacts with other agency, university, and private industry for technology transfer and positive synergisms.

ALBANY, CA

USDA/ARS/PWA
PRODUCE SAFETY AND MICROBIOLOGY RESEARCH UNIT
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ALBANY, CA

USDA/ARS/PWA

PRODUCE SAFETY AND MICROBIOLOGY RESEARCH UNIT (cont'd)

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MISSION STATEMENT

The Produce Safety and Microbiology Research Unit conducts research to enhance the safety of the nation's food supply. Basic and applied food safety research in such areas as intervention strategies for control of pathogenic bacteria and minimization of naturally occurring or process-induced toxicants are pursued in an interdisciplinary format embracing the specialties of chemistry, microbiology, biochemistry, immunology, molecular biology and nutritional toxicology. To expedite the transfer of science and technology results from its research, the group forms active partnerships with the food industry, sister regulatory agencies, and the scientific community. The research activities of the unit promote a safe, affordable food supply for the consumer, satisfy research and regulatory needs of other government agencies, and lead to important new food safety processes for industry.

ALBANY, CA

USDA/ARS/PWA
FOODBORNE CONTAMINANTS RESEARCH UNIT
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ALBANY, CA

USDA/ARS/PWA

FOODBORNE CONTAMINANTS RESEARCH UNIT (cont'd)

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MISSION STATEMENT

The Foodborne Contaminants Research Unit conducts research to enhance food safety and security by improving detection technologies for pathogens, prions, and toxins. Our impact on the safety of the nation's food supply is achieved by transferring knowledge and technology to the scientific community, the food industry, and regulatory agencies.

ALBANY, CA

USDA, ARS, PWA
EXOTIC AND INVASIVE WEEDS RESEARCH UNIT - ALBANY
800 Buchanan Street
Albany, CA 94710

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MISSION STATEMENT

Invasive weedy plants are an extremely serious problem throughout the United States and particularly on rangelands in the West. It has been estimated that 4,600 acres of public natural areas are lost to invasive exotic plant species every day. As exotic plants spread rapidly across North America and dominate new areas, they displace desirable plants that provide valuable forage for livestock and wildlife, eliminating critical habitats and affect other natural resources (including water) that are important for threatened and endangered species as well as agricultural production. In cases like salt cedar, where soil salinity is greatly increased, they may make habitats unsuitable for other species to re-grow in the future. In several western states, invasive and exotic plant species such as yellowstar thistle, salt cedar, perennial pepperweed, several knapweed species, and leafy spurge have made some productive agricultural lands nearly worthless. This problem, however, is not restricted to the terrestrial environment. Thousands of aquatic and semi-aquatic habitats are also highly infested with invasive exotic weeds such as Eurasian watermilfoil, water hyacinth, hydrilla, and purple loosestrife. Recent reports thoroughly document the impact of weeds and actions needed for their long-term management. One estimate indicates that non-indigenous weeds cost the U.S. between \$3.6 and \$5.4 billion annually.

ALBANY, CA

USDA/ARS/PWA

EXOTIC AND INVASIVE WEEDS RESEARCH UNIT – DAVIS

UC Davis Department of Plant Sciences

Mail Stop #4

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MISSION STATEMENT

Invasive weedy plants are an extremely serious problem throughout the United States and particularly on rangelands in the West. It has been estimated that 4,600 acres of public natural areas are lost to invasive exotic plant species every day. As exotic plants spread rapidly across North America and dominate new areas, they displace desirable plants that provide valuable forage for livestock and wildlife, eliminating critical habitats and affect other natural resources (including water) that are important for threatened and endangered species as well as agricultural production. In cases like salt cedar, where soil salinity is greatly increased, they may make habitats unsuitable for other species to re-grow in the future. In several western states, invasive and exotic plant species such as yellowstar thistle, salt cedar, pernnial pepperweed, several knapweed species, and leafy spurge have made some productive agricultural lands nearly worthless. This problem, however, is not restricted to the terrestrial environment. Thousands of aquatic and semi-aquatic habitats are also highly infested with invasive exotic weeds such as Eurasian watermilfoil, water hyacinth, water primrose species, hydrilla, egeria, giant reed, and purple loosestrife. Recent reports thoroughly document the impact of weeds and actions needed for their long-term management. One estimate indicates that non-indigenous weeds cost the U.S. between \$3.6 and \$5.4 billion annually.

The mission of this unit is to provide national leadership in the development of novel methods for managing exotic and invasive weeds of rangelands, and aquatic sites. Technology developed through this program provides the pest control methods used to devise effective and sustainable Integrated Pest Management (IPM) programs that support agricultural production and integrity of natural ecosystems in diverse situations throughout the country. The underlying philosophy of this program is to develop and help implement sustainable approaches to managing pests through a combination of biological, cultural, mechanical, and chemical tactics that reduce pest populations to acceptable levels while minimizing economic loss, impacts on western aquatic sites and rangelands.

ALBANY, CA

USDA/ARS/PWA
EXOTIC AND INVASIVE WEEDS RESEARCH UNIT – RENO
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ALBANY, CA

USDA/ARS/PWA

EXOTIC AND INVASIVE WEEDS RESEARCH UNIT – RENO (cont'd)

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MISSION STATEMENT

Invasive weedy plants are an extremely serious problem throughout the United States and particularly on rangelands in the West. It has been estimated that 4,600 acres of public natural areas are lost to invasive exotic plant species every day. As exotic plants spread rapidly across North America and dominate new areas, they displace desirable plants that provide valuable forage for livestock and wildlife, eliminating critical habitats and affect other natural resources (including water) that are important for threatened and endangered species as well as agricultural production. In cases like salt cedar, where soil salinity is greatly increased, they may make habitats unsuitable for other species to re-grow in the future. In several western states, invasive and exotic plant species such as yellowstar thistle, salt cedar, perennial pepperweed, several knapweed species, and leafy spurge have made some productive agricultural lands nearly worthless. This problem, however, is not restricted to the terrestrial environment. Thousands of aquatic and semi-aquatic habitats are also highly infested with invasive exotic weeds such as Eurasian watermilfoil, water hyacinth, hydrilla, and purple loosestrife. Recent reports thoroughly document the impact of weeds and actions needed for their long-term management. One estimate indicates that non-indigenous weeds cost the U.S. between \$3.6 and \$5.4 billion annually.

The mission of this unit is to provide national leadership in the development of novel methods for managing exotic and invasive weeds of rangelands, and aquatic sites. Technology developed through this program provides the pest control methods used to devise effective and sustainable Integrated Pest Management (IPM) programs that support agricultural production and integrity of natural ecosystems in diverse situations throughout the country. The underlying philosophy of this program is to develop and help implement sustainable approaches to managing pests through a combination of biological, cultural, mechanical, and chemical tactics that reduce pest populations to acceptable levels while minimizing economic loss, impacts on western rangelands.

ALBANY, CA

USDA/ARS/PWA
BIOPRODUCT CHEMISTRY AND ENGINEERING RESEARCH UNIT
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ALBANY, CA

USDA/ARS/PWA
BIOPRODUCT CHEMISTRY AND ENGINEERING RESEARCH UNIT (cont'd)
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MISSION STATEMENT

The five-year mission of the Bioproduct Chemistry and Engineering Research Unit is to explore chemistry, biology and engineering frontiers to expand the spectrum of opportunities for agriculture and consumers. The researchers of the unit define and develop new food, feed, and industrial products from agricultural crops. The researchers also define and develop advanced processing technologies for the conversion of crops into these new and traditional products. The units research seeks to minimize resource use, approach zero effluent, improve safety, and positively impact rural areas. Emphasis is on both mid-term and long-term accomplishments.

ALBANY, CA

USDA/ARS/PWA
PLANT MYCOTOXINS RESEARCH UNIT
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ALBANY, CA

USDA/ARS/PWA

PLANT MYCOTOXINS RESEARCH UNIT (cont'd)

800 Buchanan Street

Albany, CA 94710

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MISSION STATEMENT

The mission of the Mycotoxins Research Unit is to reduce or eliminate aflatoxin from contaminating tree nuts (almonds, pistachios and walnuts) and figs. Aflatoxin is cytotoxic, teratogenic and hepatocarcinogenic chemical synthesized by certain fungi and its contamination of food commodities is of concern to public health and food safety. The entire domestic production of tree nuts occurs within the Pacific West Area and is valued at approximately \$1.5 billion per year. Of the tree nuts produced, almost 60% are exported to foreign markets. Low threshold levels for aflatoxin contamination of tree nuts fixed by foreign importing agencies has caused aflatoxin to become a trade issue in addition to being a food safety issue. The Plant Protection Research Unit develops fundamentally new strategies towards controlling fungi that produce aflatoxin and insect pests whose feeding damage leads to infection of tree nuts by aflatoxin producing fungi. The methods under development focus on use of natural plant-made chemical compounds that inhibit fungal growth and synthesis of aflatoxin to disrupt the normal biology and behavior of insect pests. These methods are ecologically benign resulting in significant reduction in the use of pesticides or fungicides with commensurate improvement in quality of environment in rural communities. Methods developed are innovative and conducive to technology transfer. Control of insects that attach tree nuts reduces aflatoxins in nut harvest, chemical pesticide residues in nuts and orchard environments, and improves food quality, safety and exportability. Control methods exploit natural chemicals used in insect communication and host-finding and antifeedants that may be augmented through genetic methods. Control of aflatoxin producing fungi uses natural compounds and microbial agents that directly control the growth of the fungi or its ability to make aflatoxin. Major emphasis is placed on identifying microbiological agents or natural inhibitors that can be safely disseminated in tree nut orchards or can be used during nut-processing. The Plant Protection Research Unit includes scientist from many disciplines including chemistry, plant pathology, plant physiology, entomology, biochemistry and botany. These scientists interact on a collaborative basis with members of the unit, other personnel at RRC and other ARS locations and with personnel at numerous industries, university, county and state action agencies.

ALBANY, CA

USDA/ARS/PWA
PLANT GENE EXPRESSION CENTER
800 Buchanan Street, Rm. 1026
Albany, CA 94720

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MISSION STATEMENT

To provide the means to control plant gene expression and to develop germplasm with inherent increased productivity and quality characteristics. To develop these means by: generating knowledge of the biochemical steps and developmental mechanisms responsible for plant productivity and quality characteristics; determining the sequence of plant genomes; developing and characterizing genetically manipulated plant cells; correlating the biochemical steps and mechanisms with genetic control; developing and characterizing plant vectors; and developing and characterizing selection systems for identification and recovery of genetic variance at both the cellular and whole plant levels.

ALBANY, CA

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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Albany, CA 94710-1105

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MISSION STATEMENT

The Location Support Unit provides administrative (e.g., fiscal, procurement, and personnel) management services for the Albany location (Western Regional Research Center and Plant Gene Expression Center), Reno, Nevada and a CRIS project in Davis, California.

BOISE, ID

USDA/ARS/PWA
NORTHWEST WATERSHED RESEARCH CENTER
800 Park Blvd., Plaza IV, Suite 105
Boise, ID 83712-7716

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BOISE, ID

USDA/ARS/PWA

NORTHWEST WATERSHED RESEARCH CENTER (cont'd)

800 Park Blvd., Plaza IV, Suite 105
Boise, ID 83712-7716

MISSION STATEMENT

The mission of the Northwest Watershed Research Center is to *conduct research* addressing snow-dominated watershed hydrology, and rangeland vegetation/hydrology interactions. We will *provide* new knowledge on processes and relationships to be used for integrated resource management, and a uniquely instrumented, geographically diverse field setting and long term database to promote collaboration, research and education. Knowledge will be *conveyed* by publication of peer reviewed journal articles, technical reports, presentations and other means; release, use and training of simulation models and evaluation of instruments, and techniques used in watershed research; seeking and utilizing stakeholder input to initiate, organize and conduct symposia, workshops and other outreach programs, and proaction consultation and collaboration with other private and public entities.

BOISE, ID

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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MISSION STATEMENT

The mission of the administrative staff at NWRC is to enable excellent research by providing proficient administrative services in a friendly, flexible, organized and efficient manner.

BURNS, OR

USDA/ARS/PWA
EASTERN OREGON AGRICULTURAL RESEARCH CENTER
67826-A Hwy. 205
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BURNS, OR

USDA/ARS/PWA

EASTERN OREGON AGRICULTURAL RESEARCH CENTER (cont'd)

67826-A Hwy. 205

Burns, OR 97720

MISSION STATEMENT

To provide scientific information for the development of sound land and livestock management for present and future generations. The research focuses on productivity, weed invasions, species composition, and water, carbon, and nitrogen cycles of Great Basin rangeland and meadow plant communities. Specific projects address the impacts of grazing, fire, invasions by juniper and other species, and climate on rangeland and meadow plants. The location is also committed to technology transfer and community outreach activities.

The Eastern Oregon Agricultural Research Center is a cooperative program that includes nine ARS and two Oregon State University scientists. Physical resources of the unit include 600 acres of flood meadow and 16,000 acres of rangeland. A major portion of research is conducted cooperatively on private ranches and on public land administered by the Bureau of Land Management and the U.S. Forest Service.

BURNS, OR

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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MISSION STATEMENT

The mission of the Location Support Staff is to provide administrative services to the personnel and programs at Burns.

CORVALLIS, OR

USDA/ARS/PWA
HORTICULTURAL CROPS RESEARCH LABORATORY
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Corvallis, OR 97330

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CORVALLIS, OR

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CORVALLIS, OR

USDA/ARS/PWA

HORTICULTURAL CROPS RESEARCH LABORATORY (cont'd)

3420 NW Orchard Avenue

Corvallis, OR 97330

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MISSION STATEMENT

The mission of the Horticultural Crops Research Unit is to develop fundamental information on pathology, insect pests, physiology, genetics, and production of horticultural crops. Our emphasis is on small fruit and nursery crops grown in the Pacific Northwest of the United States. Our research focuses on (1) biology and management of plant diseases and insect pests; (2) plant growth and physiology, especially as influenced by mycorrhizal fungi; (3) germplasm evaluation and genetic improvement; and (4) production horticulture.

CORVALLIS, OR

USDA/ARS/PWA

NATIONAL FORAGE SEED PRODUCTION RESEARCH CENTER
FORAGE SEED AND CEREAL RESEARCH UNIT

3450 S.W. Campus Way
Corvallis, OR 97331-7102

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CORVALLIS, OR

USDA/ARS/PWA

NATIONAL FORAGE SEED PRODUCTION RESEARCH CENTER (cont'd)
FORAGE SEED AND CEREAL RESEARCH UNIT

3450 S.W. Campus Way
Corvallis, OR 97331-7102

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MISSION STATEMENT

The mission of the Forage Seed and Cereal Research Unit is to improve the profitability of forage seed, cereal, hop and shellfish production systems in the Pacific Northwest in a manner that meets the environmental expectations of society in general.

CORVALLIS, OR

USDA/ARS/PWA
NATIONAL CLONAL GERMPLASM REPOSITORY

33447 Peoria Road
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CORVALLIS, OR

USDA/ARS/PWA

NATIONAL CLONAL GERMPLASM REPOSITORY

NATIONAL ARCTIC AND SUBARCTIC PLANT GENETIC RESOURCES - PALMER WORKSITE

Office: 533 E. Fireweed Avenue
Lab and Barn: 1509 S. Trunk Road
Palmer, AK 99645-6629

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MISSION STATEMENT

This Management Unit includes genebanks in Corvallis, Oregon, and Palmer, Alaska. The genebanks were established to collect, maintain, distribute and evaluate germplasm of *Actinidia*, *Corylus*, *Fragaria*, *Humulus*, *Mentha*, *Paeonia*, *Pyrus*, *Rheum*, *Ribes*, *Rubus*, *Vaccinium*, and other specialty crop germplasm. These research programs adhere closely to the practical problems of germplasm storage and maintenance, including *in vitro* culture and cryopreservation, virus and disease testing, identity verification, and seed and clonal propagation techniques. We support the horticultural and agricultural industries of the temperate and subarctic regions. Our Corvallis and Palmer genebanks preserve invaluable clonal plant resources. We will preserve this diverse living germplasm for all people for all time.

CORVALLIS, OR

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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CORVALLIS, OR

USDA/ARS/PWA
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MISSION STATEMENT

The Location Support Staff provides administrative support to the three research units in personnel management, budget and fiscal management, real and personal property management, facilities operation and maintenance, and purchasing support.

DAVIS, CA

USDA/ARS/PWA
WESTERN HUMAN NUTRITION RESEARCH CENTER
OFFICE OF THE DIRECTOR
430 West Health Sciences Drive
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MISSION STATEMENT

We improve the health of all Americans by: creating and testing nutrition interventions to improve health; assessing how an individual's environment and genetics affects those interventions; and providing reliable and reproducible research results for developing national nutrition policies. We accomplish our work through: Research teams of individuals with diverse skills and exceptional knowledge, unique partnerships with academia and industry, and innovative approaches that address the whole spectrum ranging from the individual cell to the population at large. We provide insightful nutrition knowledge and effective strategies to: Health care professionals, nutrition educators, policy makers, consumers, and other leading thinkers in the U.S. and abroad. We strive to create a workplace where we foster innovative ideas and personal growth, trust and respect individuals, conduct our work with honesty, integrity, and fairness, perform at a high level of achievement and competence.

DAVIS, CA

USDA/ARS/PWA
OBESITY AND METABOLISM RESEARCH UNIT
430 West Health Sciences Drive
Davis, CA 95616

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MISSION STATEMENT

To conduct nutrition interventions in obesity and metabolism, to contribute to dietary and physical activity recommendations that will prevent obesity and related metabolic disorders such as diabetes and cardiovascular disease, and to conduct vitamin and mineral interventions to improve human health and function. Dietary factors studied include, but are not limited to, a variety of specific foods, different types and amounts of carbohydrates including sugars and grains, lipids, vitamins and minerals. In human subjects and cell and animal models, state-of-the-art methods are used to study the effects and mechanisms of action of the nutrition interventions on: whole body, tissue and cell metabolism; body weight and composition; markers of risk of chronic disease; food intake behaviors; modulation of the immune system; gene expression and metabolomics; endocrinology; and nutrient kinetics and absorption.

DAVIS, CA

USDA/ARS/PWA

IMMUNITY AND DISEASE PREVENTION RESEARCH UNIT

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MISSION STATEMENT

To contribute new knowledge on how dietary factors with anti-inflammatory and anti-oxidant properties prevent and retard excessive inflammation, which promotes progression of many diseases including diabetes, cardiovascular disease, and cancer. Dietary factors studied include, but are not limited to, phytonutrients, fat soluble vitamins, carotenoids, fatty acids and selenium. In human subjects and cell and animal models, state-of-the-art methods are used to study the effects and mechanisms of action of nutrition interventions on: immune function; markers of inflammation, oxidative stress and risk of chronic disease; genomics and metabolomics; endocrinology; nutrient kinetics; and body composition and metabolism.

DAVIS, CA

USDA/ARS/PWA
NATIONAL CLONAL GERMPLASM REPOSITORY
FOR TREE FRUIT/NUT CROPS AND GRAPES

One Shields Avenue
FedEx: Straloch Road, University of California-Davis
Davis, CA 95616-8607

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DAVIS, CA

USDA/ARS/PWA

**NATIONAL CLONAL GERMPLASM REPOSITORY
FOR TREE FRUIT/NUT CROPS AND GRAPES (cont'd)**

One Shields Avenue

FedEx: Straloch Road, University of California-Davis
Davis, CA 95616-8607

MISSION STATEMENT

The mission of this repository is to acquire, document, maintain, evaluate, distribute and utilize genetic resource collections of temperate tree fruit and nut crops and grapes assigned to this site. These collections, which are of both domestic and exotic origin, represent major crop species that contribute significantly to U.S. agriculture, and benefit world agriculture in general. Extensive living collections (nearly 5000 accessions on 70 acres and in greenhouses/screen houses) are maintained and distributed to the research community to broaden the genetic basis of these crops, and to conserve these irreplaceable resources. Research at this station supports the evaluation and documentation of these collections, which, in turn, enhances their utilization by other researchers. Specific genetic molecular analysis supports is being used to characterize range and distribution of genetic within collections and genetic "fingerprints" are further used to verify the authenticity of accession's identities, and resolve questions of synonymy within the collection.

DAVIS, CA

USDA/ARS/PWA
CROPS PATHOLOGY/GENETICS RESEARCH UNIT
378 Hutchison Hall, UC Davis
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DAVIS, CA

USDA/ARS/PWA

CROPS PATHOLOGY/GENETICS RESEARCH UNIT (cont'd)

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530-754-7195

MISSION STATEMENT

The mission of the CPGRU is to develop information on and solves issues involving the 1)etiology and biology of diseases affecting deciduous fruit/nut trees, grapevine, and strawberry, and development of improved disease management approaches that do not rely on methyl bromide or other pesticides; 2)rice genetics and germplasm enhancement for temperate environments; 3) sustainable management of grapevine diseases and weeds; and 4)sustainable floriculture production systems. Accordingly, the unit's basic and applied research programs include 1)determining the nature, biology, and pathogenic effects of bacteria, fungi, viruses, virus-like agents, and abiotic disorders that affect production of fruit/nut crops and developing alternative, environmentally sound disease management approaches; 2)identifying and characterizing rice genes affecting agronomically important traits (e.g. cold tolerance, disease resistance, competitiveness) and developing enhanced rice germplasm; 3)assessing and developing disease and weed management approaches for sustainable viticulture production; and 4)planning and implementing research on floriculture crops (i.e. cut flower and flowering potted plants) and production systems to improve the sustainability of greenhouse operations.

DAVIS, CA

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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Davis, CA 95616-4160

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MISSION STATEMENT

The Location Support Office is responsible for planning, implementing and directing the location's administrative and financial management program. This unit finds ways of getting the job done and solving problems within established regulations. It is committed to delivering excellent support services at reduced costs. The objective of the Location Support Team is to understand the customer's problems and provide solutions in the following functions: budget and fiscal; procurement; cooperative agreements; memorandums of understanding (MOUs); grants, trust funds; research support agreements (RSAs); personnel; training; travel; safety and health; property; and facilities management.

DUBOIS, ID

USDA/ARS/PWA
RANGE SHEEP PRODUCTION EFFICIENCY RESEARCH
U. S. SHEEP EXPERIMENT STATION

19 Office Loop
Dubois, ID 83423-5302

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MISSION STATEMENT

The mission of the U.S. Sheep Experiment Station is to develop integrated methods for increasing production efficiency of sheep and to simultaneously improve the sustainability of rangeland ecosystems.

DUBOIS, ID

USDA/ARS/PWA

LOCATION SUPPORT STAFF

19 Office Loop
Dubois, ID 83423-5302

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MISSION STATEMENT

The mission of the Location Support Staff is to provide administrative services to the personnel and programs at Dubois.

FAIRBANKS, AK

USDA/ARS/PWA

INTEGRATED PEST MANAGEMENT STRATEGIES FOR ALASKAN AGRICULTURE PROJECT

905 Koyukuk, 360 O'Neill Building, UAF

P. O. Box 757200

Fairbanks, AK 99775-7200

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MISSION STATEMENT

The mission of the Integrated Pest Management project is to develop integrated management strategies on invasive plants, insects, and pathogens for Alaskan crops and natural ecosystems.

* Assigned to Palmer, Alaska

FAIRBANKS, AK

USDA/ARS/PWA
FISH BYPRODUCT UTILIZATION PROJECT
905 Koyukuk, 360 O'Neill Building, UAF
P. O. Box 757200
Fairbanks, AK 99775-7200

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Fax Number:

907-474-1813

MISSION STATEMENT

The mission of the Fish Byproduct Utilization project is to develop effective, economical, and sustainable methods to enhance utilization and value of by-products from the Alaska fish processing industry.

FAIRBANKS, AK

USDA/ARS/PWA

LOCATION SUPPORT STAFF

905 Koyukuk, 360 O'Neill Building, UAF

P. O. Box 757200

Fairbanks, AK 99775-7200

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MISSION STATEMENT

The mission of the Location Support Staff is to provide administrative services to the personnel and programs at Fairbanks and Palmer.

HILO, HI

USDA/ARS/PWA
PACIFIC BASIN AGRICULTURAL RESEARCH CENTER
64 Nowelo Street
Fedex: P.O Box 4459
Hilo, HI 96720

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MISSION STATEMENT

The mission of the U. S. Pacific Basin Agricultural Research Center is to develop basic and applied information to strengthen agriculture in Hawaii and the Pacific Basin in an environmentally acceptable and sustainable manner by managing and developing tropical plant genetic resources, developing new technologies and germplasm for improving crop productivity by reducing physiological and disease constraints, developing and demonstrating appropriate strategies for managing crop pests, providing economically viable technologies for controlling quarantine pests, ensuring product quality and safety, and increasing economic returns.

HILO, HI

USDA/ARS/PWA
TROPICAL CROP AND COMMODITY PROTECTION RESEARCH UNIT
P.O. Box 4459
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Hilo, HI 96720

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HILO, HI

USDA/ARS/PWA

TROPICAL CROP AND COMMODITY PROTECTION RESEARCH UNIT (cont'd)

P.O. Box 4459

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MISSION STATEMENT

To identify, develop, and implement environmentally acceptable strategies for management of tropical crop pests, systems, treatments and processes that control quarantine pests, ensure product quality, food safety and increase product value.

HILO, HI

USDA/ARS/PWA
TROPICAL PLANT GENETIC RESOURCES AND DISEASE RESEARCH UNIT
P.O. Box 4459
Fedex: 64 Nowelo Street
Hilo, HI 96720

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HILO, HI

USDA/ARS/PWA

TROPICAL PLANT GENETIC RESOURCES AND DISEASE RESEARCH UNIT (cont'd)

P.O. Box 4459

Fedex: 64 Nowelo Street

Hilo, HI 96720

MISSION STATEMENT

The mission of the Tropical Plant Genetic Resources and Disease Research Unit is to conduct research to enhance agricultural sustainability and crop resistance to pests and disease by developing new technologies that integrate classical and molecular approaches, to use multi-discipline approaches to provide innovative technologies, protocols, and fact-based support to environmental sound, economical beneficial end-products.

HILO, HI

USDA/ARS/PWA
LOCATION SUPPORT STAFF
P.O. Box 4459
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MISSION STATEMENT

The mission of the Location Support Staff is to provide administrative services to the programs located within the State of Hawaii. This includes: 1) United States Pacific Basin Agricultural Research Center and its Office of the Center Director, 2) four Management Units; Tropical Plant Pests Rsch Unit, Tropical Plant Physiology, Disease and Production Unit, Post-Harvest Tropical Commodities Research Unit, and Pacific Basin Tropical Plant Rsch Genetic Resource Management Unit, and 3) Tropical Aquaculture Rsch Unit. In addition, there is a detachment of the Tropical Plants Research Laboratory of Beltsville, working cooperatively with the University of Hawaii in Kapaa which is given administrative support by this office.

KIMBERLY, ID

USDA/ARS/PWA

NORTHWEST IRRIGATION AND SOILS RESEARCH LABORATORY

3793 N. 3600 E.
Kimberly, ID 83341-5076

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KIMBERLY, ID

USDA/ARS/PWA

NORTHWEST IRRIGATION AND SOILS RESEARCH LABORATORY (cont'd)

3793 N. 3600 E.

Kimberly, ID 83341-5076

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MISSION STATEMENT

The mission of the NWISRL is to develop solutions for production and environmental problems in irrigated crop and animal production systems.

KIMBERLY, ID

USDA/ARS/PWA
LOCATION SUPPORT STAFF
3793 N. 3600 E.
Kimberly, ID 83341-5076

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Farm and Maintenance Office

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MISSION STATEMENT

The Location Support Staff provides administrative and support services to personnel and programs in budget and fiscal management, personnel management, real and personal property management, procurement support, information technology support, safety and health management, and farm and facilities operations and maintenance.

MARICOPA, AZ

USDA/ARS/PWA
ARID LAND AGRICULTURAL RESEARCH CENTER
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Maricopa, AZ 85138

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MISSION STATEMENT

The Arid Land Agricultural Research Center has three research management units. The mission of the U.S. Arid Land Agricultural Research Center is to develop sustainable agricultural systems by investigating the multiple interactions within a changing agricultural environment, and leveraging the unique characteristics of its location. Issues to be addressed through interdisciplinary research include the complex relationships among: cropping systems, water management, and the environment, including the agriculture-urban interface.

MARICOPA, AZ

USDA/ARS/PWA

PEST MANAGEMENT & BIOCONTROL RESEARCH UNIT

21881 North Cardon Lane

Maricopa, AZ 85138

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MARICOPA, AZ

USDA/ARS/PWA

PEST MANAGEMENT & BIOCONTROL RESEARCH UNIT (cont'd)

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MISSION STATEMENT

The mission of the Pest Management and Biocontrol Research unit is to develop unique and improved biological, behavioral, cultural, and genetic based methods to reduce losses by insects and mites affecting crops in arid land production areas of the U.S. The goals are economically, socially and environmentally acceptable pest population suppression technologies based on the use of behavioral chemicals, genetics, cultural practices, biological control, sampling and decision aids, modeling and population dynamics of pests and their natural enemies. Emphasis is placed on development of fully integrated, ecologically-based management strategies in a changing agricultural environment that includes recognition of the agriculture-urban interface.

MARICOPA, AZ
 USDA/ARS/PWA
PLANT PHYSIOLOGY AND GENETICS RESEARCH
 21881 North Cardon Lane
 Maricopa, AZ 85238

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MARICOPA AZ

USDA/ARS/PWA

PLANT PHYSIOLOGY AND GENETICS RESEARCH (cont'd)

21881 North Cardon Lane

Maricopa, AZ 85238

MISSION STATEMENT

The mission of the Plant Physiology and Genetic Research Unit is to increase the productivity, profitability and sustainability of agriculture in arid environments by developing new germplasm for both traditional and alternative crops and by improving plant responses to abiotic stresses and to changes in the global environment.

MARICOPA, AZ

USDA/ARS/PWA

WATER MANAGEMENT AND CONSERVATION RESEARCH UNIT

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Maricopa, AZ 85238

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MARICOPA, AZ

USDA/ARS/PWA

WATER MANAGEMENT AND CONSERVATION RESEARCH UNIT (cont'd)

21881 North Cardon Lane

Maricopa, AZ 85238

MISSION STATEMENT

The mission of the Water Management and Conservation Research Unit is to develop management strategies, conserve water, and protect water quality in systems involving soil, aquifers, plants, and the atmosphere. The research unit conducts research under the Water Resource Management National Program 201. Unit programs have a long history of cooperation with the Natural Resources Conservation Service (NRCS), Cooperative Extension, U.S. Bureau of Reclamation (BOR), state agencies, cities, and irrigation districts.

MARICOPA, AZ

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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MISSION STATEMENT

The Location Support Staff provides an overall administrative management program in support of the multi-disciplinary research programs for the Arid Land Agricultural Research Center. The philosophy of the location administrative management team is to provide a wide range of administrative services, such as: personnel; budget; travel; procurement; property; extramural research agreement programs; safety, occupational health and environmental programs; and facility management in a courteous, effective, and efficient manner.

PARLIER, CA

USDA/ARS/PWA

SAN JOAQUIN VALLEY AGRICULTURAL SCIENCES CENTER

9611 S. Riverbend Avenue

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PARLIER, CA

CROP DISEASES, PESTS AND GENETICS RESEARCH UNIT

USDA/ARS/PWA
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PARLIER, CA

CROP DISEASES, PESTS AND GENETICS RESEARCH UNIT (cont'd)

USDA/ARS/PWA
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MISSION STATEMENT

The mission of the CDPG is to develop unique and improved methods to minimize losses in horticultural crops caused by exotic and invasive pests and diseases. The goals are to develop economically, socially and environmentally acceptable methods to enhance host plant resistance and improved vector management strategies. Approaches include enhancing natural disease and pest resistance, developing resistant cultivars, and biological control strategies based on better understanding of plant pathogen epidemiology and insect vector biology and ecology.

PARLIER, CA

USDA/ARS/PWA
COMMODITY PROTECTION AND QUALITY RESEARCH UNIT
9611 S. Riverbend Avenue
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PARLIER, CA

USDA/ARS/PWA

COMMODITY PROTECTION AND QUALITY RESEARCH UNIT (cont'd)

9611 S. Riverbend Avenue

Parlier, CA 93648

MISSION STATEMENT

Reduce losses caused by insect pests in fresh fruits and vegetables, dried fruits and nuts, during handling, transport and storage; determine host-susceptibility to insects; develop nonphytotoxic chemical, physical and alternative treatments efficacious against insects and not shorten storage or marketing life of commodities; increase exports by developing acceptable commodity/quarantine treatments for importing countries, without lowering produce quality; protect U.S. agricultural commodities by developing effective quarantine/commodity treatments for the exclusion of insect pests with the least interference of foreign and interstate trade; determine insect biology and ecology in the field or storage situation; development of attractants and physical methods as monitoring/control methods; development of insect pathogens for pre and postharvest control of insects of postharvest significance; determine the survival and reproductive potential of quarantined and postharvest insects on various commodities; operate an analytical unit to monitor residue concentrations of commodity treatments as related to tolerances set by the U.S. and importing countries; and develop electronic or other detection methods for determining insect damage and infestation levels related to domestic and foreign markets.

PARLIER, CA

USDA/ARS/PWA
WATER MANAGEMENT RESEARCH UNIT
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MISSION STATEMENT

The mission of the Water Management Research Unit (WMRU) is to develop irrigation and drainage water management practices and methods that use water efficiently, improve agricultural productivity and sustainability, and reduce negative environmental impacts of irrigated agriculture in semi-arid and arid areas. Efficient water use is critical because of the competing needs for limited supplies and, in some cases, the cost of water. Irrigated agriculture must be productive to compete in the increasingly competitive global market. Sustaining productivity will be critical to meeting the food needs of the growing global population. Irrigation in arid areas impacts the environment. The potential negative impacts may damage the agricultural lands, as well as downstream ecosystems and water users. Reducing these impacts is critical to the acceptability and sustainability of irrigated agriculture.

PARLIER, CA

USDA/ARS/PWA
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MISSION STATEMENT

The Location Support Unit provides administrative, clerical, fiscal, procurement, and personnel management services for the Laboratory Director, Research Leaders, and scientists at the Parlier and Shafter, California, locations and Pullman, Washington project.

PENDLETON, OR

USDA/ARS/PWA

COLUMBIA PLATEAU CONSERVATION RESEARCH CENTER

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PENDLETON, OR

USDA/ARS/PWA

COLUMBIA PLATEAU CONSERVATION RESEARCH CENTER (cont'd)

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MISSION STATEMENT

The mission of the Soil and Water Conservation Research Lab is to improve soil and water management in the Columbia Plateau and related land resource areas. Through scientific research and technology transfer, we respond effectively to new demands for knowledge relative to the needs of growers, agribusinesses, and state and federal agencies in improving economic returns, resource use efficiency, soil and water conservation practices, and agricultural sustainability. The research, conducted in an area of limited winter precipitation and dry summers, is grouped under the broad category of soil management investigations. This research center was established as a result of recommendations made by a local study group appointed by the Secretary of Agriculture in 1959 to determine the research needs for soil and water conservation. These recommendations were contained in Senate Document 59, 86th Congress. The research center was dedicated in 1970 and is operated and maintained by the U. S. Department of Agriculture, Agricultural Research Service. The research conducted at this center is cooperative with the Oregon, Washington, and Idaho agricultural experiment stations, and other groups and agencies.

PENDLETON, OR

USDA/ARS/PWA
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PROSSER, WA

USDA/ARS/PWA

VEGETABLE AND FORAGE CROPS PRODUCTION RESEARCH UNIT

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PROSSER, WA

USDA/ARS/PWA

VEGETABLE AND FORAGE CROPS PRODUCTION RESEARCH UNIT (cont'd)

24106 N. Bunn Road
Prosser, WA 99350-9687

MISSION STATEMENT

The mission of the USDA-ARS-Vegetable and Forage Crops Research Unit at Prosser, Washington, is germplasm improvements and development of sustainable integrated cropping systems for irrigated specialty crops, forages, and biofuel feedstocks. This will be accomplished by: (i) Development of specialty crops, forages, and edible legumes germplasm lines with: improved resistance to pests, diseases, and abiotic stresses; enhanced nutritional value, phytonutrients, and processing qualities; and expanded markets. (ii) Development of disease management strategies which integrate: genetic resistance; cropping systems; advanced technologies for plant breeding, and rapid detection of plant pathogens; and chemical and biological control methods. (iii) Development of sustainable irrigated crop rotation systems for specialty crops and biofuel feedstocks for: maximizing economic returns; optimizing management of input resources; improving organic production systems; beneficial uses of agricultural and biofuel byproducts; enhancing soil quality and sustainability; and minimizing negative environmental impacts.

Accomplishments of the above research contribute to the following Strategic Goals of USDA-ARS: (i) Enhance the Competitiveness and Sustainability of Rural and Farm Economies; (ii) Enhance Protection and Safety of the Nation's Agriculture and Food Supply; and (iii) Protect and Enhance the Nation's Natural Resource Base and Environment.

PROSSER, WA

USDA/ARS/PWA

WESTERN REGIONAL PLANT INTRODUCTION STATION

24106 N. Bunn Road
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MISSION STATEMENT

The Western Regional Plant Introduction Station coordinates activities of research and plant conservation units located in Pullman and Prosser, Washington, and Parlier, California, for the National Plant Germplasm System. The project consists of 11 programs for the acquisition, maintenance, regeneration, evaluation, and utilization and research of diverse plant germplasm collections.

PROSSER, WA
USDA/ARS/PWA
LOCATION SUPPORT STAFF
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MISSION STATEMENT

The mission of the Location Support Staff is to provide administrative support services to the Vegetable and Forage Crops Production Research Unit at Prosser.

PULLMAN, WA

USDA/ARS/PWA

WHEAT GENETICS, QUALITY, PHYSIOLOGY AND DISEASE RESEARCH UNIT

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PULLMAN, WA

USDA/ARS/PWA

WHEAT GENETICS, QUALITY PHYSIOLOGY AND DISEASE RESEARCH UNIT (cont'd)

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Wheat Genetics Fax Number:

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MISSION STATEMENT

Develop wheat germplasm with an emphasis on club wheats, which maximizes economic returns by a) increased nutrient efficiency, b) exploitation resistance to diseases, c) increased winter hardiness, d) versatile and superior end-product use, e) specific adaption to agricultural systems that conserve soil, water, and energy. Identify key wheat properties desired in foreign and domestic wheat food products. Elucidate the molecular, biochemical, and genetic events that regulate wheat seed dormancy and germination; determine the molecular mechanisms of cereal adaptation to environmental changes. Control of foliar and smut diseases with emphasis on conducting and coordinating basic and applied research on rusts and smuts; approaches include forecasting epidemics, crop loss assessment, pathogen virulence, disease resistance, and integrated pest management. Quality studies concentrate on exploratory research of objective tests to define wheat market classes and quality evaluation of germplasm for several breeding programs. The inheritance of important traits, germplasm enhancement of resistance to diseases favored by erosion-control practices, and tolerance or avoidance of environmentally induced stresses receive emphasis.

PULLMAN, WA

USDA/ARS/PWA

GRAIN LEGUME GENETICS AND PHYSIOLOGY RESEARCH UNIT

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MISSION STATEMENT

The major thrust of this management unit is to 1) develop food legumes that produce sufficient biomass to assist with conservation compliance regulations for erosion control; 2) develop germplasm and cultivars of cool season food legumes (peas, lentils, chickpeas and Austrian winter peas) that will alleviate damage from diseases, insects, or environmental stresses; 3) use morphological, isozymic and DNA markers to establish gene maps that can be used to locate major genes for disease resistance and quality traits; and 4) use genetic maps to identify loci that regulate the expression of quantitative traits such as time to flowering, time to maturity, biomass production, seed size and resistance to environmental stresses. Research conducted by the unit is concentrating on gene systems responsible for disease resistance and the loci that influence the expression of physiological traits. Linkage relationships of the genes for these traits with easily assayed molecular markers are being identified in Pisum, Lens, and Cicer. Germplasm and cultivar development is aimed toward new combinations of multiple disease resistance with improved yields and better crop quality. Genetic markers are being used to verify the incorporation of genes from wild species of Lens into cultivated types. Traits important to crop establishment and adaptation to the environment are being investigated. Future research in this unit is being directed towards the genetics of important traits, gene mapping and marker-based selection systems for use in germplasm development.

PULLMAN, WA

USDA/ARS/PWA

LAND MANAGEMENT AND WATER CONSERVATION RESEARCH UNIT

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MISSION STATEMENT

The Land Management and Water Conservation Research Unit conducts research to develop science-based information and technology that advances competitive agricultural systems for the sustained use of land, water, and air resources.

PULLMAN, WA

USDA/ARS/PWA
ANIMAL DISEASE RESEARCH UNIT
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PULLMAN, WA

USDA/ARS/PWA
ANIMAL DISEASE RESEARCH UNIT (cont'd)

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PULLMAN, WA

USDA/ARS/PWA

ANIMAL DISEASE RESEARCH UNIT (cont'd)

3003 ADBF, WSU

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Pullman, WA 99164-6630

MISSION STATEMENT

The research program of the Animal Disease Research Unit (ADRU) is to solve basic and applied problems concerning persistent infectious diseases of domestic animals, especially diseases that affect international trade. Current research responsibilities include scrapie of sheep (and the related spongiform encephalopathies including chronic wasting disease of mule deer and elk, and bovine spongiform encephalopathy), malignant catarrhal fever virus (a gamma-herpes virus of cattle, sheep and certain exotic ungulates), bovine and ovine anaplasmosis (a rickettsial infection of red blood cells), and bovine and equine piroplasmiasis (a protozoan infection of cattle and horses). Integrated within our research mission is defining protective bovine and equine immune responses. The Unit's research focus concerning these diseases is to solve problems related to domestic animal health and international trade issues. Our Unit works closely with APHIS concerning research needs impacting trade issues. The ultimate goal is recommendations for management, control and eradication.

PULLMAN, WA

USDA/ARS/PWA

ROOT DISEASE AND BIOLOGICAL CONTROL RESEARCH UNIT

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MISSION STATEMENT

Our mission is to control the root diseases of wheat and barley in cereal-based production systems. These diseases, including take-all, caused by *Gaeumannomyces graminis* var. *tritici*, Pythium root rot, caused by several species of *Pythium*, and Rhizoctonia root rot, caused by *R. solani*, *R. oryzae* and *R. cerealis*, are international problems and this MU is the only one in ARS conducting such research. The diseases are favored by the modern farming practices of shorter or no crop rotation and reduced tillage (conservation tillage) owing to the near-continuous presence of susceptible hosts, more favorable soil moisture and temperature in soil covered with surface residue, and longer survival of root pathogens in the crop residue. Control of these root diseases will improve the efficiency of wheat and barley production because yields will increase with the use of the same amount of fertilizer, water, land and seed. The technology to protect the root health of these crops will lower the economic risk to farmers who use modern cropping practices to control soil erosion, and will lessen the chances of nitrates leaching below the rooting zone because of the greater efficiency of nitrogen uptake by crops with healthy roots. Root disease control underpins sustainable cereal-based production systems in the Pacific Northwest and the northern Great Plains. This research is classified under National Program Code 303 (Plant Diseases) under the Crop Protection, Product Value and Safety research area.

PULLMAN, WA

USDA/ARS/PWA

PLANT GERMPLASM INTRODUCTION AND TESTING RESEARCH UNIT - PULLMAN

59 Johnson Hall, WSU
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PULLMAN, WA

USDA/ARS/PWA

PLANT GERMPLASM INTRODUCTION AND TESTING RESEARCH UNIT – PULLMAN (cont'd)

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MISSION STATEMENT

The Western Regional Plant Introduction Station coordinates activities of research and plant conservation units located in Pullman and Prosser, WA, and Parlier, CA. The project consists of 11 programs for the acquisition, maintenance, regeneration, evaluation, utilization and research of diverse plant germplasm collections.

PULLMAN, WA

USDA/ARS/PWA

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MISSION STATEMENT

This Administrative unit provides support and counsel to facilitate day-to-day research operations for six Research Management Units and their staff at Pullman, Washington, and Moscow, Idaho, and Central Ferry, Idaho.

RIVERSIDE, CA

USDA/ARS/PWA
U.S. SALINITY LABORATORY
450 W. Big Springs Road
Riverside, CA 92507-4617

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MISSION STATEMENT

The U.S. Salinity Laboratory is a National Laboratory for basic research on the chemistry, physics, and biology of salt-affected soil-plant-water systems. The mission of its staff is to develop, through research, new knowledge and technology dedicated to the solution of problems of crop production on salt-affected lands, sustainability of agriculture when using improved waters for irrigation, and degradation of surface- and ground-water resources by salts, toxic elements, pesticides, and pathogens released from animal waste.

RIVERSIDE, CA

USDA/ARS/PWA

CONTAMINANT FATE AND TRANSPORT RESEARCH UNIT

450 W. Big Springs Road
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MISSION STATEMENT

The mission of the Contaminant Fate and Transport Research Unit is to develop methods for evaluating, predicting, and managing the movement of water, salts and agricultural chemicals in the root and vadose zones of salt-affected soils. Develop tools for assessing new soil-water-crop management schemes to make effective use of limited resources where salinity and/or pesticides are a concern. Emphasis is on (1) evaluating the impact of irrigated agriculture on soil and groundwater quality using integrated unsaturated water and solute transport models and related user-friendly computer software, (2) pesticide volatilization and pesticide loadings from agricultural fields to surface and ground waters, (3) developing improved methods for measuring unsaturated water and solute transport parameters and related soil properties, and (4) characterizing the important physical and chemical processes affecting the fate and transport of harmful pesticides and related organic chemicals into the atmosphere and into the subsurface.

RIVERSIDE, CA

USDA/ARS/PWA

WATER REUSE AND REMEDIATION RESEARCH UNIT

450 W. Big Springs Road
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RIVERSIDE, CA

USDA/ARS/PWA

WATER REUSE AND REMEDIATION RESEARCH UNIT (cont'd)

450 W. Big Springs Road
Riverside, CA 92507-4617

MISSION STATEMENT

The mission of the Water Reuse and Remediation Research Unit is to develop the necessary knowledge and management practices for sustainable and economic plant production using saline water or salt affected soils while conserving water and soil resources. The specific objectives of the research program are to: 1) Develop management practices and agricultural technologies to sustain irrigation with saline and recycled waters; 2) Develop models and comprehensive criteria/standards to assess the suitability of water for irrigation and develop new salinity and toxic element reclamation and management models; 3) Develop an integrative understanding of salt and ion-specific tolerance in plants that will lead to improved management for reuse of water to increase plant yield and quality; 4) Develop tools such as GIS-techniques and precision agriculture technology for efficient management of recycled water and salt-affected lands.

RIVERSIDE, CA

USDA/ARS/PWA

NATIONAL CLONAL GERMPLASM REPOSITORY FOR CITRUS AND DATES

1060 Martin Luther King Blvd.

Riverside, CA 92507

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MISSION STATEMENT

The mission of the National Germplasm Repository for Citrus and Dates is to collect, maintain, evaluate, preserve, and distribute germplasm of citrus, dates, and related Aurantioideae genera and Phoenix species. The achievement of this goal involves (1) acquisition of the widest possible genetic diversity within citrus and dates to reduce genetic vulnerability in the future, (2) testing and treatment of accessions for pathogenic organisms, (3) maintenance of accessions in a protected, pest-free environment, (4) genetic, horticultural, and physiological characterization and evaluation of accessions, (5) establishment of an informational record for each accession covering acquisition, inventory, evaluation, and gene descriptor data, (6) distribution of pathogen-free germplasm to qualified researchers throughout the world, and (7) research into improved methods of collection, evaluation, propagation, preservation, and distribution.

RIVERSIDE, CA

USDA/ARS/PWA
LOCATION SUPPORT STAFF
450 W. Big Springs Road
Riverside, CA 92507-4614

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MISSION STATEMENT

The mission of the Location Support Staff is to provide full-range administrative support services to multidisciplinary research units at the Riverside location. These include Water Reuse and Remediation Research and Contaminant Fate and Transport Research at the US Salinity Laboratory and Citrus Research at the National Clonal Germplasm Repository. The Location Support Staff is responsible for providing administrative management, budget requests, reports and plans, human resources services, facilities maintenance, real and personal property management, motor vehicle records/reports, ADP oversight, construction, supplies, and services with delegated procurement authority under \$25,000.

SALINAS, CA

USDA/ARS/PWA
U.S. AGRICULTURAL RESEARCH STATION
1636 East Alisal Street
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MISSION STATEMENT

The mission of the Crop Improvement and Protection Research Unit is to improve germplasm of lettuce, spinach, melon, and sugarbeet, determine basic biology of viral, fungal and bacterial diseases affecting these crops, develop alternatives to methyl bromide as a soil fumigant for control of soilborne pests in strawberry and vegetables, reduce postharvest losses to insects on of lettuce, develop scientifically based organic crop production practices, develop methods for control of weeds, and improve artichoke production practices including insect and disease control.

SALINAS, CA

USDA/ARS/PWA
CROP IMPROVEMENT AND PROTECTION RESEARCH UNIT
1636 East Alisal Street
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SALINAS, CA

USDA/ARS/PWA

CROP IMPROVEMENT AND PROTECTION RESEARCH UNIT (cont'd)

1636 East Alisal Street

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SALINAS, CA

USDA/ARS/PWA
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MISSION STATEMENT

The Location Support Unit provides administrative, clerical, fiscal, procurement, and personnel management services for the Research Leader and scientists at Salinas.

SHAFTER, CA

USDA/ARS/PWA

WESTERN INTEGRATED CROPPING SYSTEMS RESEARCH UNIT

17053 Shafter Avenue

Shafter, CA 93263

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MISSION STATEMENT

The mission of the Western Integrated Cropping Systems Research Unit is to develop and transfer new technologies and cotton germplasm that enhance and sustain the production of crops in the arid regions of the Western U. S. Biological controls such as microbial pesticides and parasites are being developed that may provide specific and selective control agents for the major insect pests of cotton. Determination of overwintering locations and movement of pest insects will allow for more accurate prediction of future pest infestations and to identify release points of parasites. A process for rapid identification of race 4 *Fusarium oxysporum vasinfectum* (FOV), a disease new to the US will be developed and used to determine the extent of the infestation and to measure plant responses to remediation attempts. Traditional and molecular genetics are used to identify, map, and follow novel traits that can be used in elite cotton germplasm to enhance cotton yield and quality or resist fungal and insect pests. Using molecular markers, genome linkage relationships are determined for important traits, candidate genes, or quantitative trait loci. Integrating these markers into the breeding program should expedite the broadening of the genetic base of cotton.

SHAFTER, CA

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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MISSION STATEMENT

The Location support staff provides administrative, clerical, fiscal, procurement and personnel management services for the Research Leader and scientists at Shafter, CA.

TUCSON, AZ

USDA/ARS/PWA
CARL HAYDEN BEE RESEARCH CENTER
HONEY BEE RESEARCH UNIT
2000 East Allen Road
Tucson, AZ 85719-1596

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MISSION STATEMENT

The mission of the Carl Hayden Bee Research Center is to solve problems associated with the transport and introduction of honey bee colonies for crop production. Our research is directed at honey bee nutrition, Varroa mites, Africanization of European honey bees and crop pollination.

TUCSON, AZ

USDA/ARS/PWA
SOUTHWEST WATERSHED RESEARCH UNIT
2000 East Allen Road
Tucson, AZ 85719

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TUCSON, AZ

USDA/ARS/PWA

SOUTHWEST WATERSHED RESEARCH UNIT (cont'd)

2000 East Allen Road

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MISSION STATEMENT

To understand the effects of changing climate, land use, and management practices on the hydrologic cycle, soil erosion processes, watershed resources, and to develop prototype decision support systems for natural resource models. Areas of research include characterizing watershed systems by quantifying precipitation and other climatic inputs, the influence of spatial variability and scale effects in topography, soils, land use, and management practices affecting hydrologic processes, water yield, surface and ground water quality, soil erosion, and rangeland productivity. The unit also conducts integrated systems research for the development of new technology to predict and assess the condition and sustainability of agricultural watersheds and for development of decision support systems for natural resource models. Research is conducted to extend scientific findings beyond gauged experimental watersheds and to facilitate technology transfer of research data, interpretations, natural resource models, and decision support systems.

TUCSON, AZ

USDA/ARS/PWA

WALNUT GULCH EXPERIMENTAL WATERSHED

P. O. Box 213

Tombstone, AZ 85638

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MISSION STATEMENT

The Walnut Gulch Experimental Watershed is an integral part of the research program of the Southwest Watershed Research unit in Tucson. The watershed is one of the world's most well-known outdoor laboratories for studies in hydrology, soil erosion, water quality, and global change, and to evaluate the effects of land use and management of natural resources in a semiarid environment. The goal for the watershed is to provide a permanent field facility in support of research to develop information for economically and environmentally sustainable agriculture and natural resources management.

TUCSON, AZ

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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Fax Number:

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MISSION STATEMENT

The Location Support Unit provides administrative, fiscal, personnel, procurement and maintenance services for the Research Leaders, scientists and staff of Tucson and Tombstone, Arizona.

WAPATO, WA

USDA/ARS/PWA

YAKIMA AGRICULTURAL RESEARCH LABORATORY
FRUIT AND VEGETABLE INSECT RESEARCH UNIT

5230 Konnowac Pass Road
Wapato, WA 98951

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WAPATO, WA

USDA/ARS/PWA

YAKIMA AGRICULTURAL RESEARCH LABORATORY
FRUIT AND VEGETABLE INSECT RESEARCH UNIT (cont'd)

5230 Konnowac Pass Road
Wapato, WA 98951

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MISSION STATEMENT

The mission of the Fruit and Vegetable Insect Research Unit located near Wapato, Washington is to develop biorational means to manage insect pests of apple, pear, cherry and potato crops of the western U.S.

WAPATO, WA

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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MISSION STATEMENT

The mission of the Location Support Staff is to provide administrative services to the personnel and programs at Wapato.

WENATCHEE, WA

USDA/ARS/PWA

TREE FRUIT RESEARCH LABORATORY

PHYSIOLOGY AND PATHOLOGY OF TREE FRUITS RESEARCH UNIT

1104 North Western Avenue

Wenatchee, WA 98801

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WENATCHEE, WA

USDA/ARS/PWA

TREE FRUIT RESEARCH LABORATORY

PHYSIOLOGY AND PATHOLOGY OF TREE FRUITS RESEARCH UNIT (cont'd)

1104 North Western Avenue

Wenatchee, WA 98801

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MISSION STATEMENT

The mission of the Physiology and Pathology of Tree Fruits Research Unit is to solve plant disease and fruit quality problems occurring in deciduous tree fruit production systems. Our goal is to provide information that 1) enhances production practices that manage tree and fruit disease organisms; 2) provides taxonomic tools to identify pathogens of import/export concern; and 3) characterizes factors regulating development and maintenance of fruit market quality. While portions of the location's research focus complement activities in other research units, the location's expertise and programmatic focus in the areas of deciduous tree fruit disease characterization and control, fruit developmental biology, and market quality are unique to the agency.

WENATCHEE, WA

USDA/ARS/PWA
LOCATION SUPPORT STAFF
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MISSION STATEMENT

The Location Support Unit provides administrative, clerical, budget and fiscal, procurement and property, facilities management, and personnel management services for the Research Leader and scientists at the Wenatchee location.