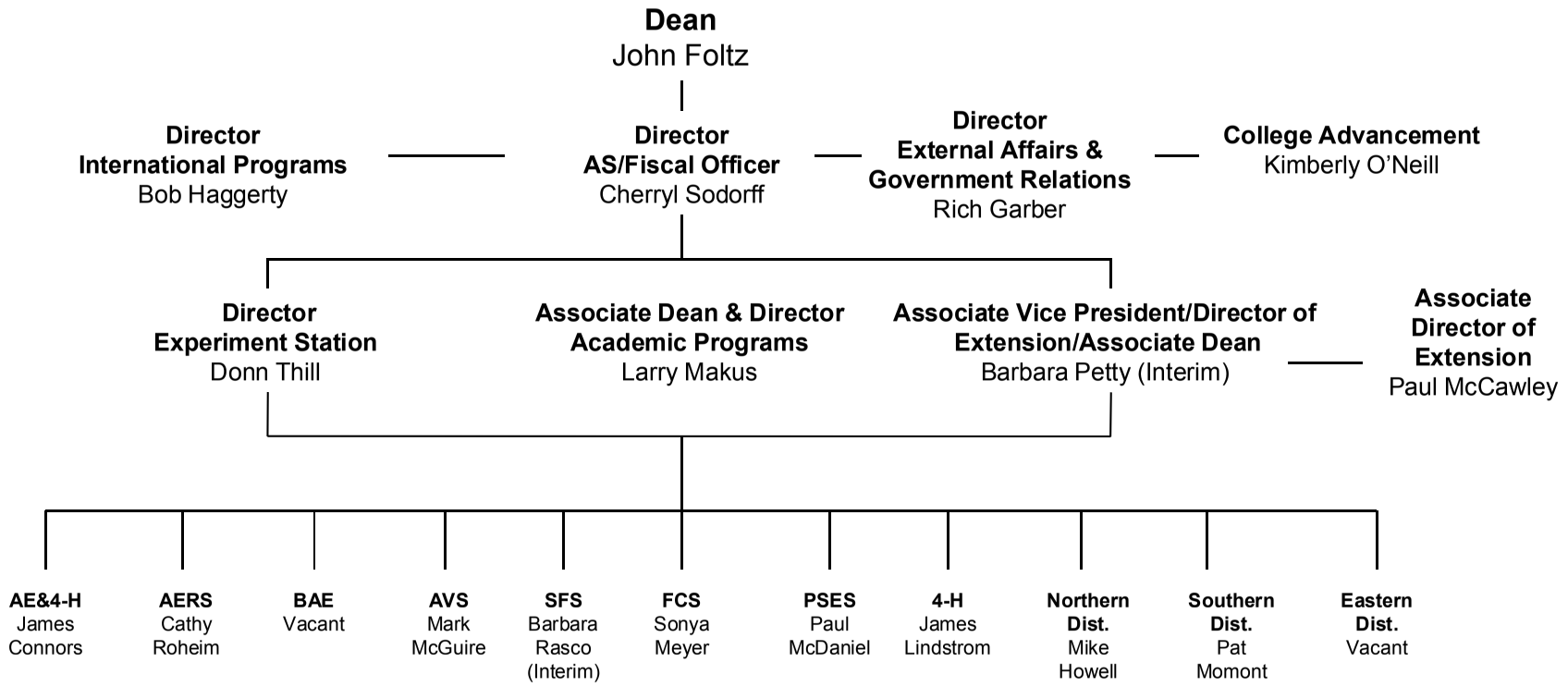
Overview 2014

University of Idaho
College of Agricultural and Life Sciences

Current Structure FY15



AERS – Ag Econ & Rural Sociology
AE & 4-H – Ag Ed & 4-H Youth Development
AVS – Animal & Veterinary Science
BAE – Biological & Agricultural Engr
AS – Administrative Services
SFS – School of Food Science
PSES – Plant, Soil & Entomological Sciences
FCS – Family & Consumer Sciences

Organizational Structure

College of Agricultural & Life Sciences
John Foltz, Dean

External Affairs & Govt. Relations
Rich Garber, Director

Administrative Services
Cherryl Sodorff, Director

College Advancement
Kimberly O'Neill, Asst. Dean
Development & Foundations

International Programs*
Bob Haggerty, Director

Research and Extension Centers
Aberdeen – Jeff Stark, Superintendent
Caldwell – Pat Momont, Superintendent
Caine – Gordon Brumbaugh, Director
Dubois - Vacant
Kimberly – Don Morishita, Superintendent
Palouse– Donn Thill, Superintendent
Parma – Jim Barbour Superintendent
Nancy M. Cummings – John Hall, Superintendent
Tetonia – Phil Nolte, Farm Manager
Boise
Idaho Falls
Twin Falls

USDA/Dept Ag ARS

National Institute for Food and Agriculture (NIFA)

42 Extension Centers and County Extension Personnel**

Academic Programs
Larry Makus, Associate Dean and Director
Paulette House, Assistant Director, Recruitment
Shishona Turner, Assistant Director, Advising & Retention
Undergraduate Programs
Student Advising, Recruitment & Retention
Scholarships & Awards
Student Organizations

Idaho Agricultural Experiment Station
Donn Thill, Director
Competitive Agriculture
Natural Resources & Environment
Youth and Families
Health, Food Safety, Quality
Community Development
Program & Project Development
Grants & Contracts
Statistical Services
Nuclear Potato Program
Foundation Seed **– Dave Hoadley, Director**

Cooperative Extension System
Barbara Petty, Interim Associate Dean and Director of Extension
Paul McCawley, Associate Director
Competitive Agriculture
Natural Resources & Environment
Youth and Families
Health, Food Safety, Quality
Community Development
Extension Forestry

Units (Academic Programs - Research - Extension)

Agricultural Ed & 4-H Youth Development
James Connors, Head

Agricultural Economics & Rural Sociology
Cathy Roheim, Head

Biological & Agricultural Engineering
Vacant, Head

Animal & Veterinary Science
Mark McGuire, Head

Joint School of Food Science
Barbara Rasco, Interim Head

Family & Consumer Sciences
Sonya Meyer, Director

Plant, Soil & Entomological Sciences
Paul McDaniel, Head
Plant Science North
Bob Tripepi, Division Chair
Entomology
Ed Bechinski, Division Chair
Plant Science South
Mike Thornton, Division Chair
Soil and Land Resources
Jodi Johnson-Maynard, Division Chair

4-H Youth Development
James Lindstrom, Director

Northern District
Mike Howell, Director

Southern District
Pat Momont, Director

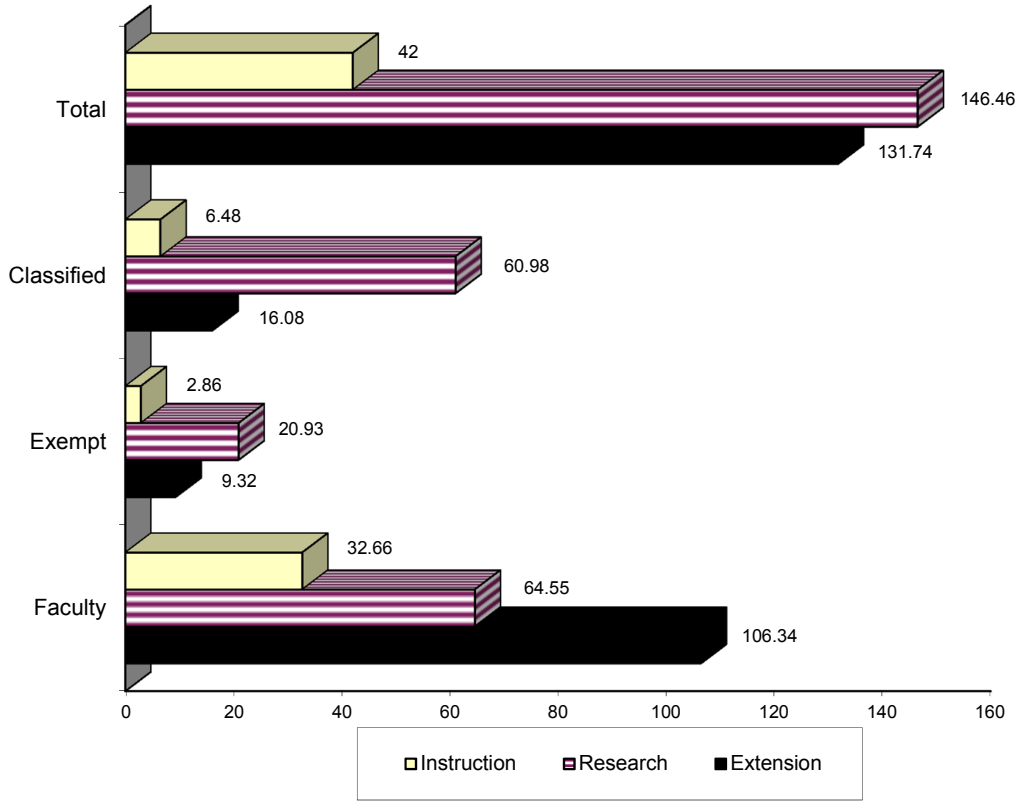
Eastern District
Vacant, Director

* International Programs coordinated with departmental efforts in Teaching, Research and Extension
** Administered cooperatively with county governments

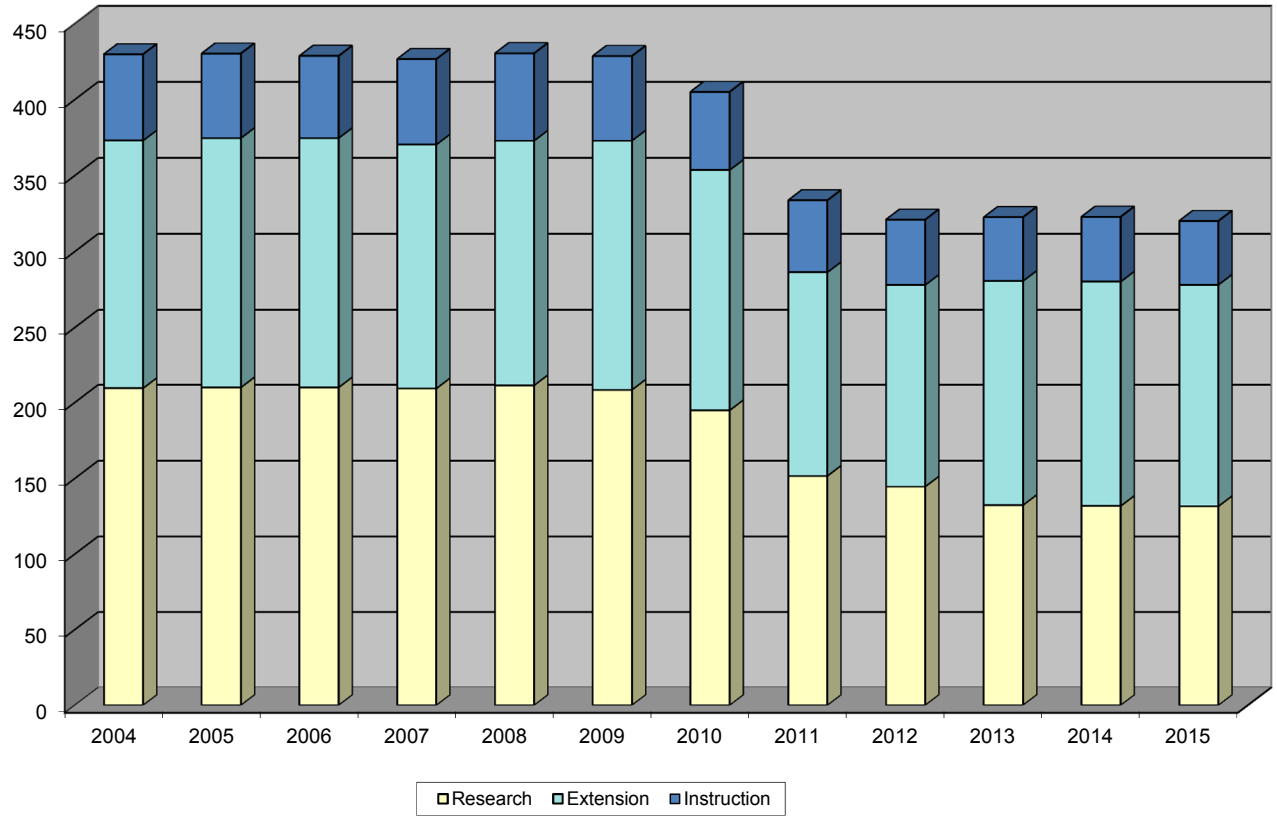
***Idaho Agricultural Experiment Station – Administrative Structure for R&E Centers (Subject of Review)**

Organizational Chart FY15

Full Time Equivalent (FTE) 2015 Chart



Full-Time Equivalent (FTE) History FY2004-2015



COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

MISSION STATEMENT

The College of Agricultural and Life Sciences fulfills the intent and purpose of the land-grant mission and serves the food-industry, people and communities of Idaho and our nation:

- through identification of critical needs and development of creative solutions,
- through the discovery, application, and dissemination of science-based knowledge,
- by preparing individuals through education and life-long learning to become leaders and contributing members of society,
- by fostering the healthy populations as individuals and as a society,
- by supporting a vibrant economy, benefiting the individual, families and society as a whole.

VALUES STATEMENT

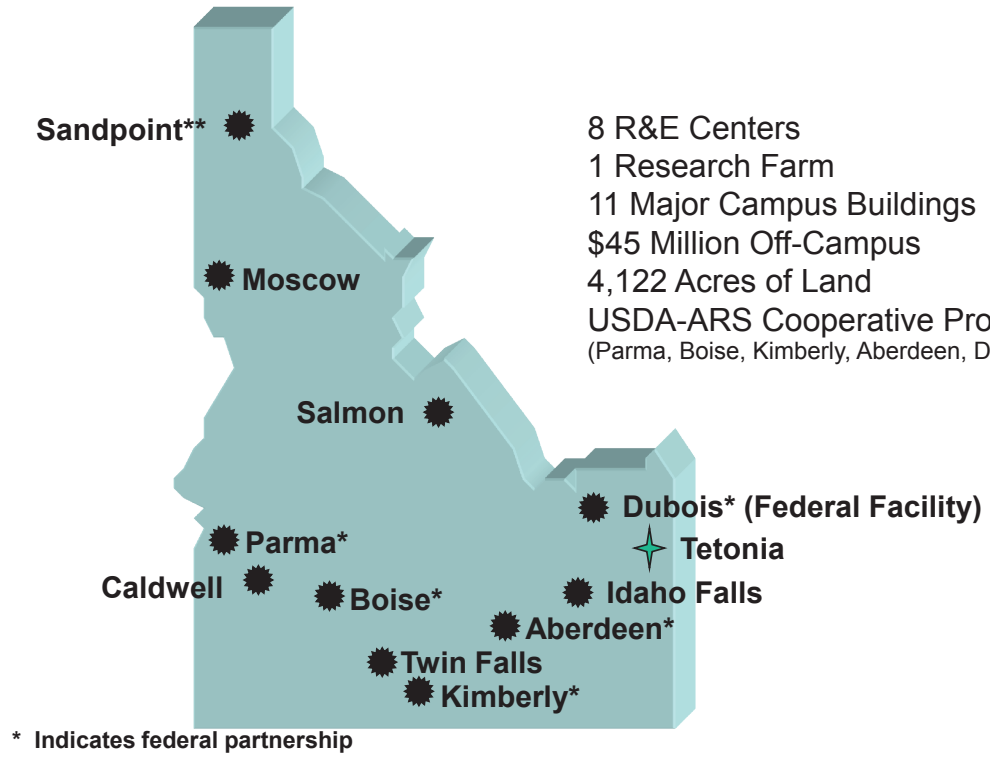
The College of Agricultural and Life Sciences values:

- excellence in creative discovery, instruction and outreach,
- open communication and innovation,
- individual and institutional accountability,
- integrity and ethical conduct,
- accomplishment through teamwork and partnership,
- responsiveness and flexibility,
- individual and institutional health and happiness.

VISION STATEMENT

We will be the recognized state-wide leader and innovator in meeting the state's current and future challenges to create healthy individuals, families and communities, and enhance sustainable food systems respected regionally and nationally through focused areas of excellence in teaching, research and outreach with extension serving as a critical knowledge bridge between the University of Idaho, College of Agricultural and Life Sciences, and the people of Idaho.

Research and Extension Facilities

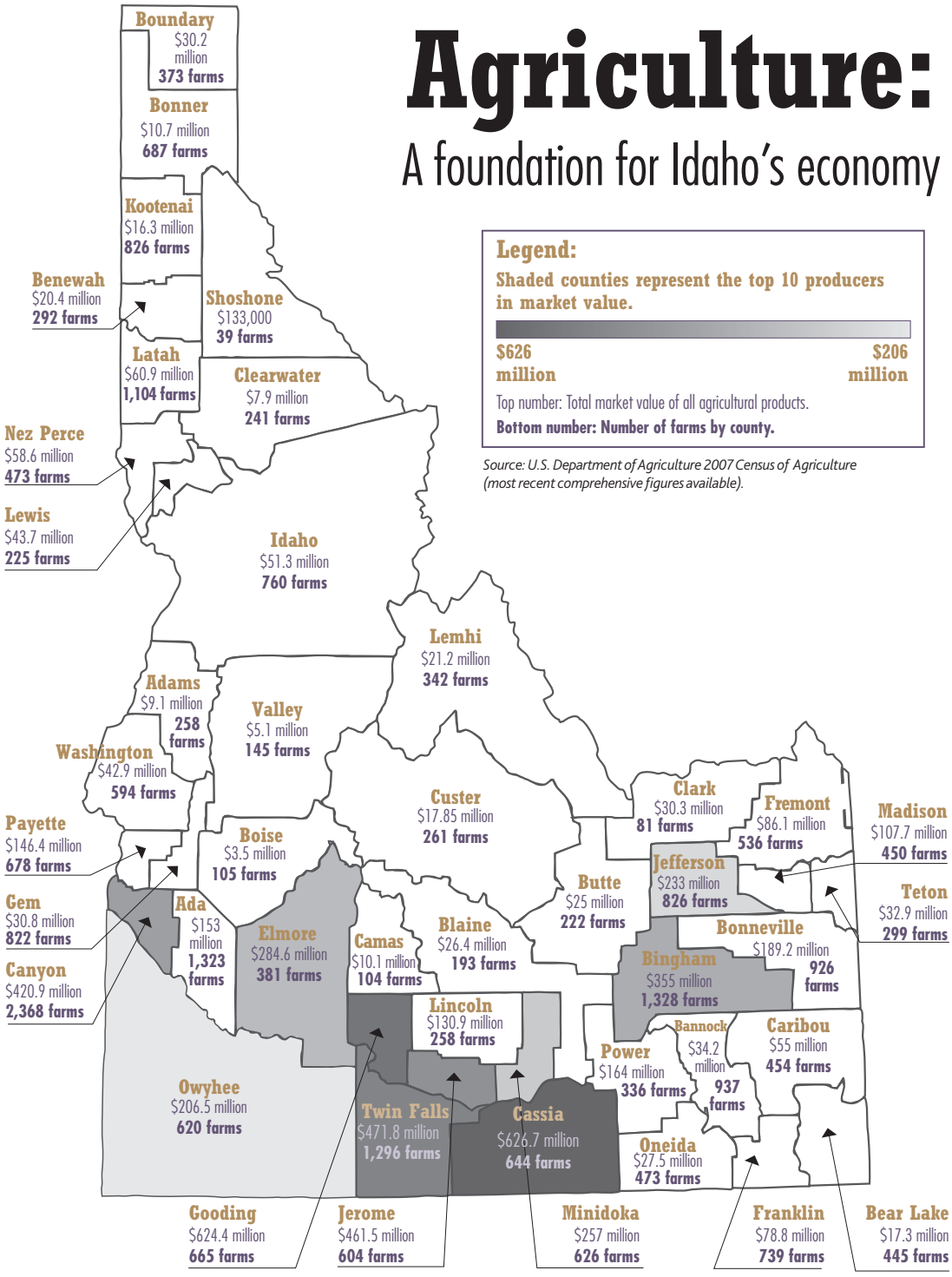


8 R&E Centers
1 Research Farm
11 Major Campus Buildings
$45 Million Off-Campus
4,122 Acres of Land
USDA-ARS Cooperative Programs
(Parma, Boise, Kimberly, Aberdeen, Dubois)

* Indicates federal partnership
** Not currently in operation
Research farm

Agriculture:

A foundation for Idaho's economy



Source: U.S. Department of Agriculture 2007 Census of Agriculture (most recent comprehensive figures available).

IDAHO'S 24,700 FARMS and ranches produced agricultural products valued at $7.32 billion in 2011, up from $5.9 billion in 2010.

A base analysis, which accounts for "economic ripples" throughout the economy, shows agribusiness contributed $24 billion (20%) of total sales, over $8.3 billion (14%) of gross state product, and over 123,000 (14%) of Idaho jobs in 2011. Agribusiness is Idaho's largest base industry by sales and the second-largest base industry by jobs and value added. Agribusiness is thriving in Idaho and ties for first place in significance for the state's economy with the combined hi-tech and other manufacturing sector.

The top 10 commodities in 2011 in millions of dollars were:

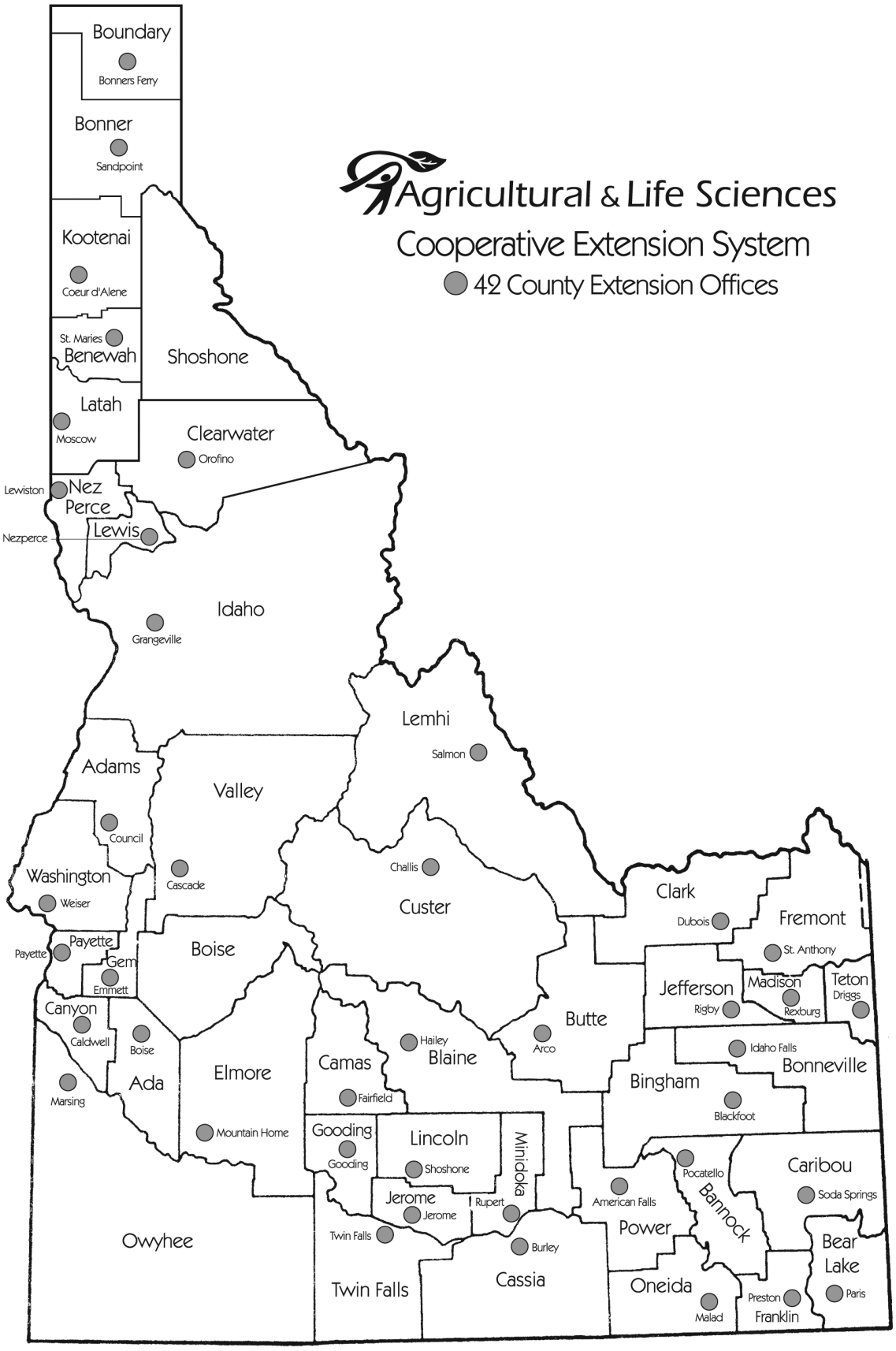
Milk	$2,433
Cattle	$1,376
Potatoes	$915
Wheat	$733
Hay	$555
Sugar beets	$347
Barley	$205
Corn	$113
Dry beans	$66
Onions	$52

The value of Idaho agricultural commodities exported in 2011 totaled $2.17 billion. Wheat and wheat products, vegetables and preparations, dairy products, and feeds and fodders were the largest export commodity groups. Canada was Idaho's largest trading partner, receiving 20 percent of exports, followed by Mexico, China, Japan, Korea and Indonesia. The six nations accounted for two-thirds of Idaho's agricultural exports.

University of Idaho
College of Agricultural and Life Sciences

Research and Extension (R&E) Centers

Location	Areas of Emphasis	Total Acres
Aberdeen	Potatoes and cereal grains, and irrigation technology, nursery, horticulture and turf	464
Boise	Watershed management and modeling, family and consumer sciences, integrated pest management and 4-H youth development	0
Caine Center	Animal and veterinary science/medicine research	40
Caldwell	Beef production/nutrition/range economics	280
Hagerman Aquaculture Center	Fish nutrition and feeds, fish genetics and breeding, fish culture and production efficiency	4
Idaho Falls	Potato disease, potato seed quality and ag economics	0
Kimberly	Potatoes, sugarbeets, dry beans, forage, water quality and management	178
Moscow (Home Station)	Cereal grains, peas, lentils, chickpeas, oilseeds (canola/ rapeseed), potatoes, animal veterinary science research, beef, dairy and sheep production/management/nutrition, water quality, bioremediation	1,249
Parma	Potatoes, cereal grains, hops, onions, corn, apples, forages, small fruits, mint	200
Nancy M. Cummings	Cow calf integrated with forages	1,044
Sandpoint	Nursery crops and small fruits	78
Tetonia	Potatoes, seed potatoes, and cereal grains	585
Twin Falls	Sugarbeets, irrigation management, forage, beef, dairy and ag economics	0
TOTAL		**4,122**


Agricultural & Life Sciences
Cooperative Extension System
42 County Extension Offices
Boundary
Bonners Ferry
Bonner
Sandpoint
Kootenai
Coeur d'Alene
St. Maries
Benewah
Shoshone
Latah
Moscow
Clearwater
Orofino
Lewiston
Nez Perce
Nezperce
Lewis
Idaho
Grangeville
Lemhi
Salmon
Adams
Valley
Council
Washington
Weiser
Cascade
Challis
Custer
Clark
Dubois
Fremont
St. Anthony
Payette
Payette
Gem
Emmett
Boise
Jefferson
Rigby
Madison
Rexburg
Teton
Driggs
Canyon
Caldwell
Boise
Ada
Marsing
Elmore
Mountain Home
Camas
Hailey
Blaine
Fairfield
Butte
Arco
Idaho Falls
Bonneville
Bingham
Blackfoot
Gooding
Gooding
Lincoln
Shoshone
Minidoka
Jerome
Jerome
Rupert
Twin Falls
Owyhee
Twin Falls
Burley
Cassia
Pocatello
American Falls
Power
Bannock
Caribou
Soda Springs
Bear Lake
Paris
Oneida
Malad
Preston
Franklin

Off-Campus Appropriated Dollars and FTE's (FY2015)

Northern District	FTE		Appropriated Dollars
Sandpoint R&E	0.00	$	
Palouse RE&E	10.29	$	927,729.85
Coeur D' Alene	1.53	$	182,210.00
County Offices (8)	11.42	$	881,212.22
Total	**23.24**	**$**	**1,991,152.07**

Southern District	FTE		
Caldwell/Caine Center	13.68	$	1,322,391.00
Parma R&E Center	4.79	$	662,019.00
Boise Center	2.63	$	249,953.00
Twin Falls R&E Center	7.61	$	734,567.63
Kimberly R&E Center	13.56	$	1,261,285.00
County Offices (17)	19.28	$	2,294,301.57
Total	**61.55**	**$**	**6,524,517.20**

Eastern District	FTE		
Aberdeen R&E Center	21.64	$	1,698,271.00
Tetonia R&E Center	1.25	$	255,332.64
Idaho Falls R&E Center	4.00	$	513,716.00
Nancy M Cummings Ranch	4.43	$	485,189.24
Sheep Experiment Station	0.00	$	
County Offices (15)	19.50	$	1,604,869.66
Total	**50.82**	**$**	**4,557,378.54**

Grand Total	**135.61**	**$**	**13,073,047.81**
Percent of FTE Off Campus	48%		
Percent of Appropriated Dollars Off Campus	49%		

Departments, Academic Majors, and Academic Minors

All courses of study lead to the Bachelor of Science degree (B.S.)

Agricultural and Extension Education

B.S., Agricultural Education
B.S., Agricultural and Life Sciences
—Agriculture Science, Communication and Leadership major
Minor: Agricultural Extension Education

Agricultural Economics and Rural Sociology

B.S., Agricultural Economics
—Agricultural Economics option
—Agribusiness option
Minors: Agribusiness
Natural Resource Economics

Agricultural Systems Management[a]

B.S., Ag and Life Sciences
—Agricultural Systems Management major
Minor: Agricultural Systems Management

Animal and Veterinary Science

B.S., Animal and Veterinary Science
—Business option
—Dairy Science option
—Production option
—Science/Preveterinary option
Minor: Animal Science

Family and Consumer Sciences

B.S., Family and Consumer Sciences
a. Child, Family, and Consumer Studies major
—Child and Youth Development option
—Family Development and Aging option
—Consumer and Community Development option
b. Apparel, Textiles and Design major
c. Food and Nutrition major
—Coordinated Program in Dietetics option
—Nutrition option
B.S., Early Childhood Development and Education

UI/WSU Bi-State School of Food Science

B.S., Food Science
—Food Science option
—Dairy Foods Management option
Minor: Food Science

Plant, Soil, and Entomological Sciences

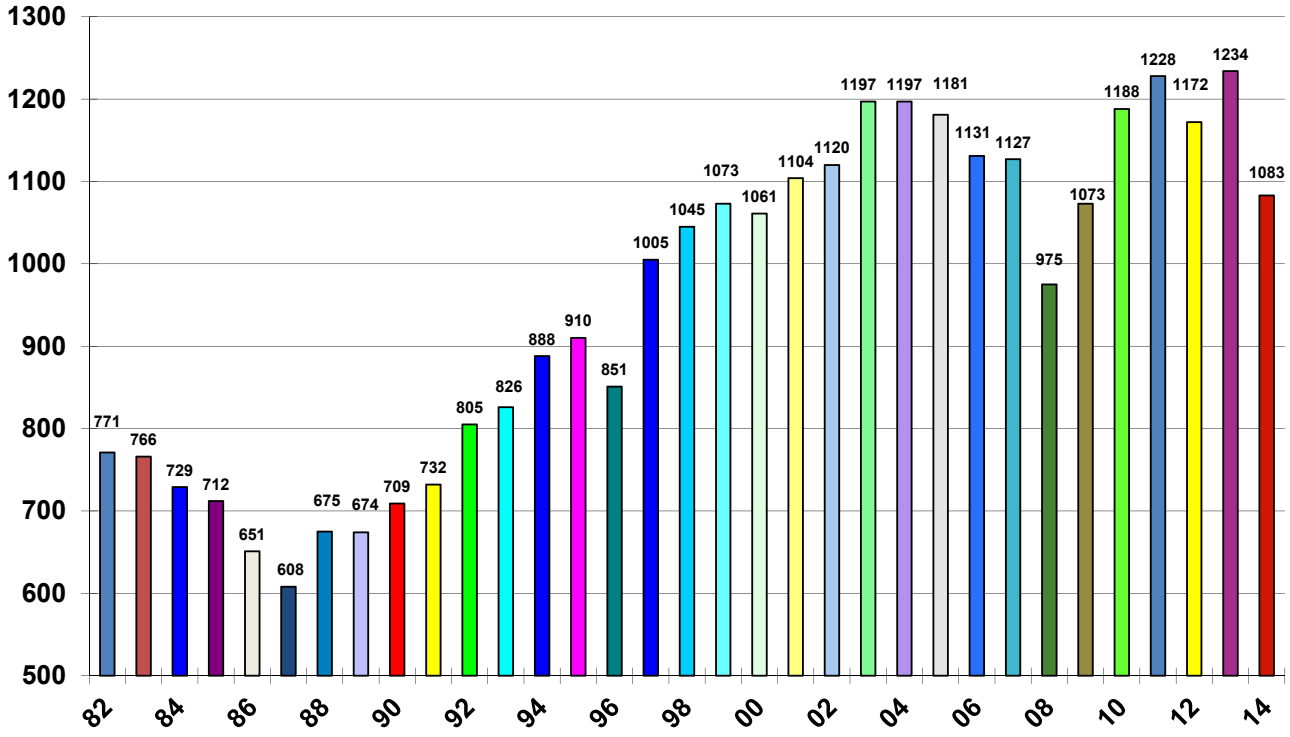
B.S., Ag. and Life Sciences
a. Sustainable Crop and Landscape Systems major
—Insects and Society emphasis
—Environmental Horticulture emphasis
—Sustainable Cropping Systems emphasis
—Plant Biotechnology emphasis
—Soil and Land Use emphasis
b. Sustainable Food Systems major

Minors: Crop Science
Entomology
Horticulture
Plant Protection
Soil Science

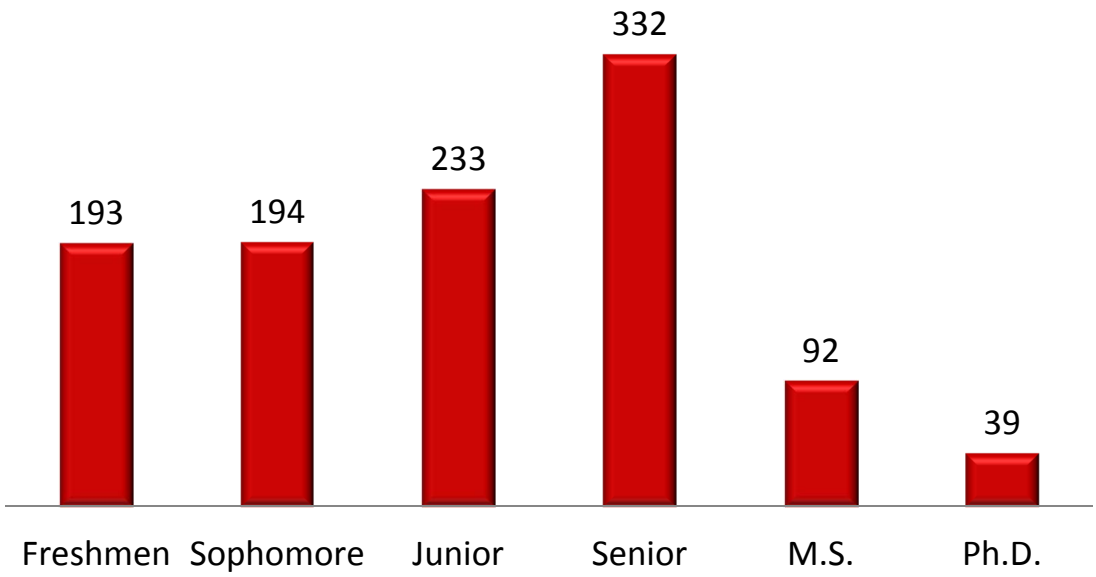
Notes:
[a]The Agricultural Systems Management (ASM) curriculum was previously in the Biological and Agricultural Engineering (BAE) department, which is moving to the College of Engineering. The ASM program is continuing in the College of Agricultural and Life Sciences, but is currently not assigned to a specific department.

Total Enrollment, Fall 2014

(Primary Majors through 1997—Double Majors—outside of CALS after 1997, MMBB not included after 2007, BAE includes ASM majors only for 2014)

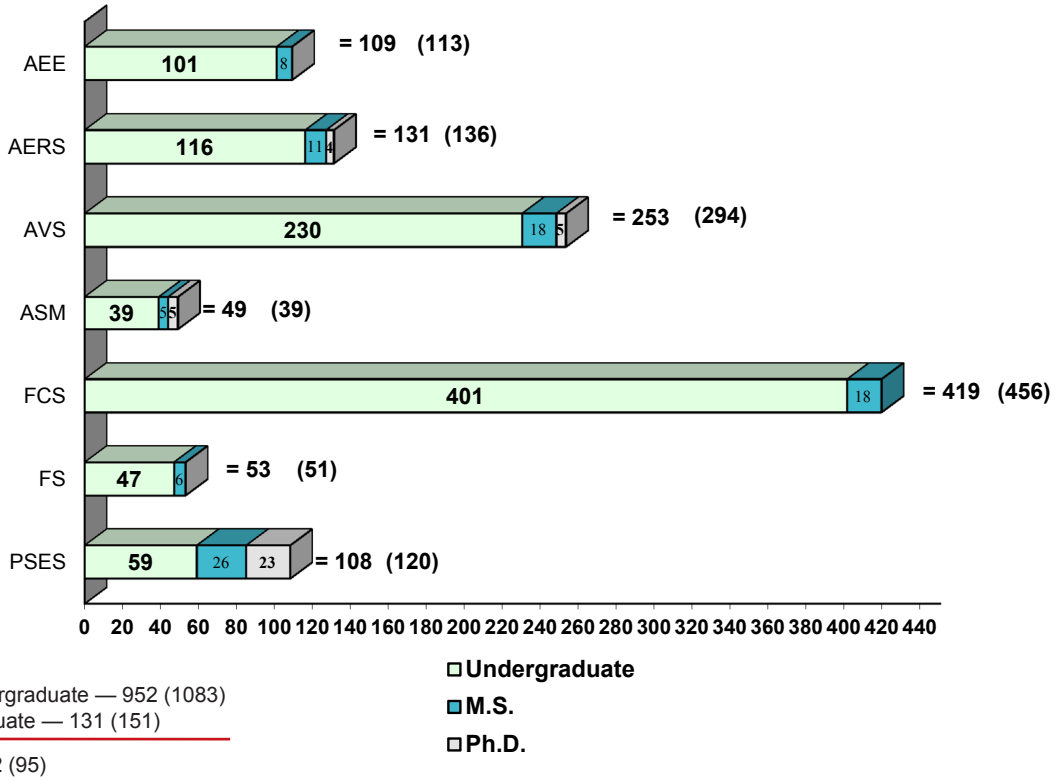


Enrollment, Fall 2014



Enrollment by Departments, Fall 2014 ('13 in parentheses)

(Includes Double Majors—both in CALS and other Colleges + Interdisciplinary Graduate Programs)

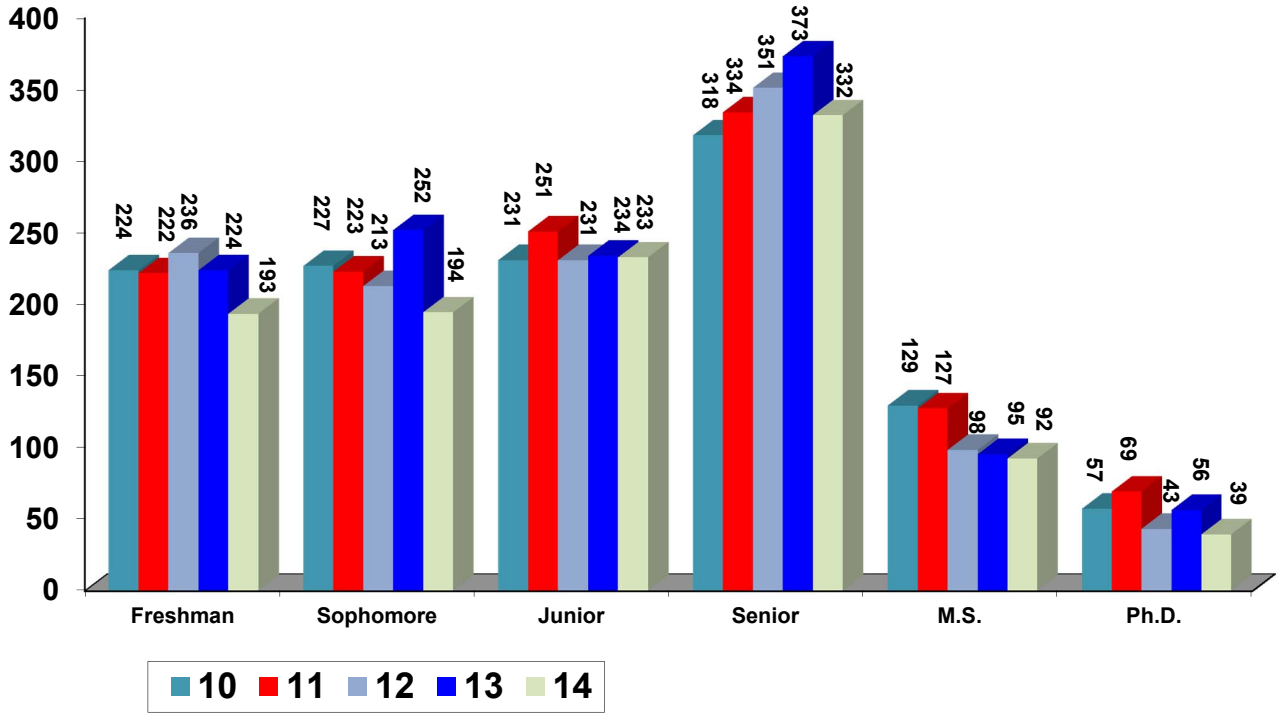


Total Undergraduate — 952 (1083)
Total Graduate — 131 (151)

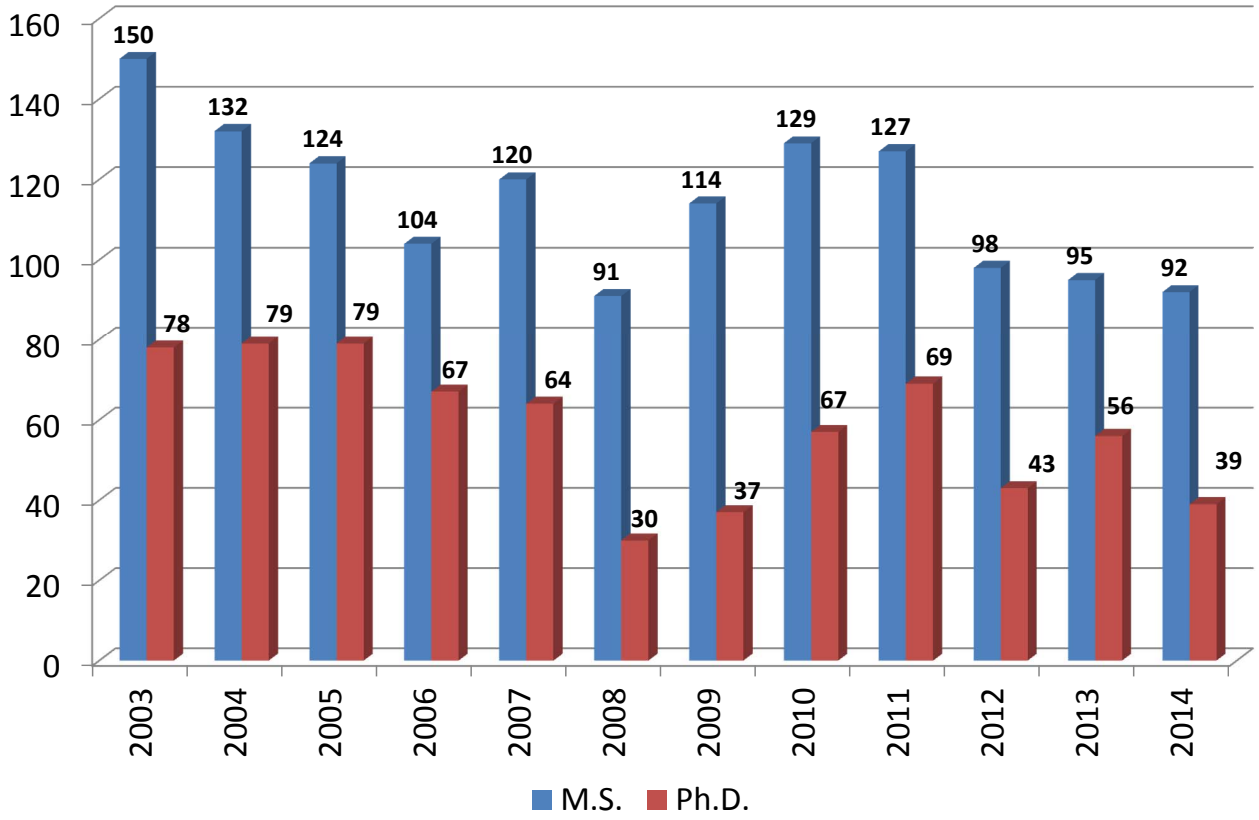
M.S. — 92 (95)
Ph.D. — 39 (56)

Enrollment by Class, Fall 2010-2014

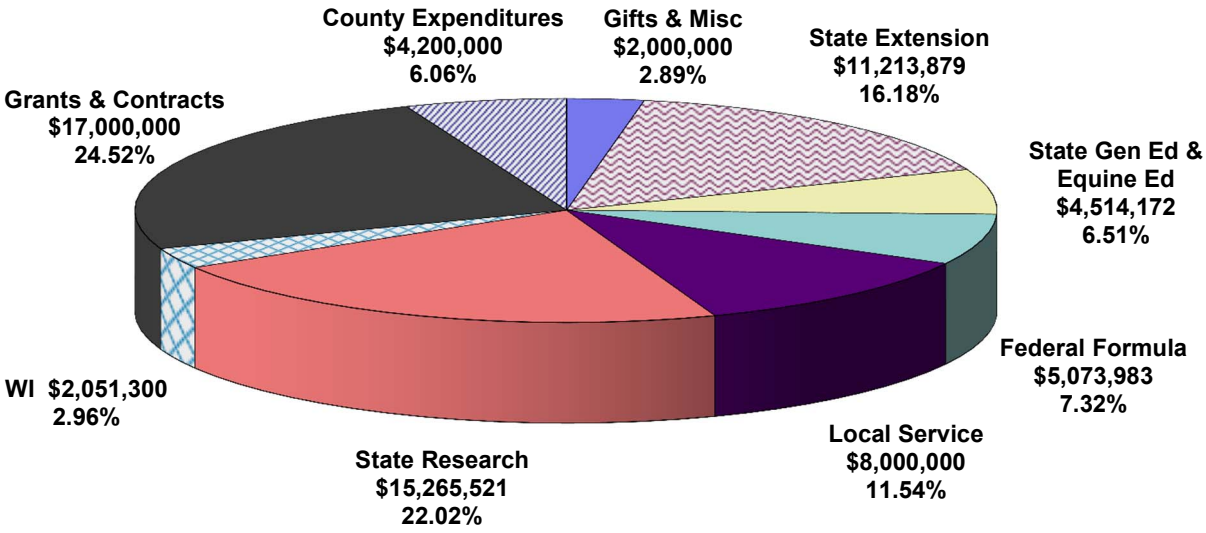
(Includes Double Majors – both in CALS and other Colleges + Interdisciplinary Graduate Programs)



Graduate Enrollment, Fall 2014

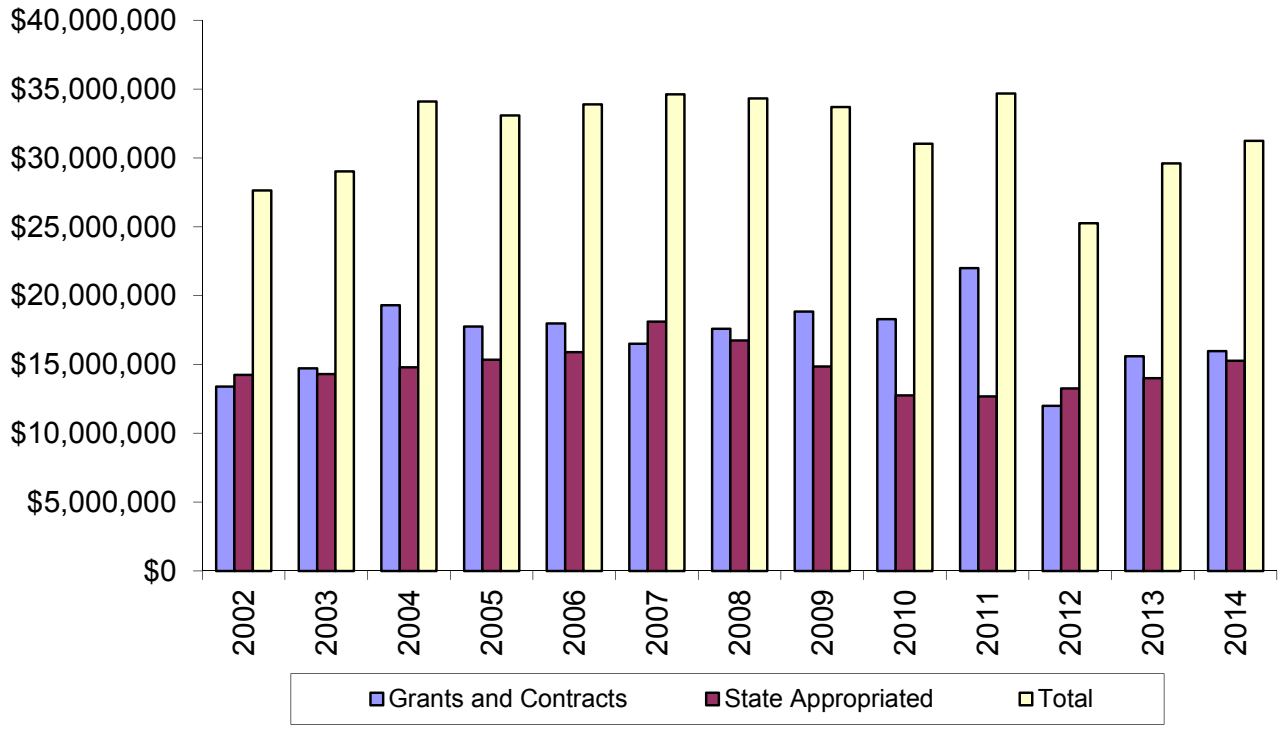


2015 Estimated Operating Resources

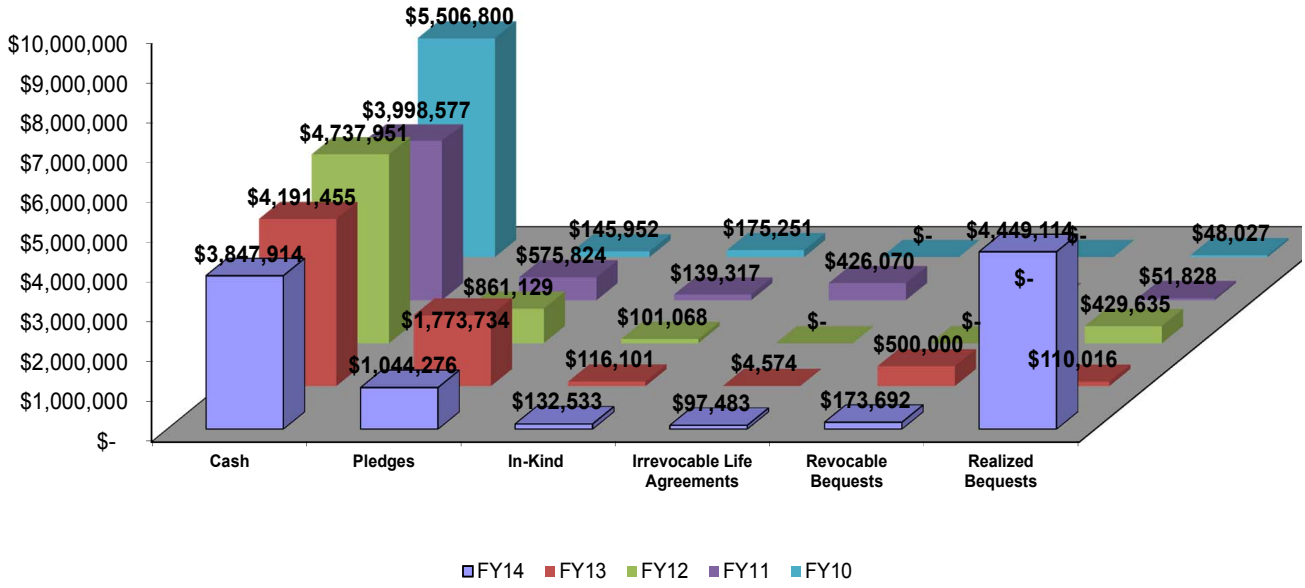


Total Estimated Budget = $69,318,855

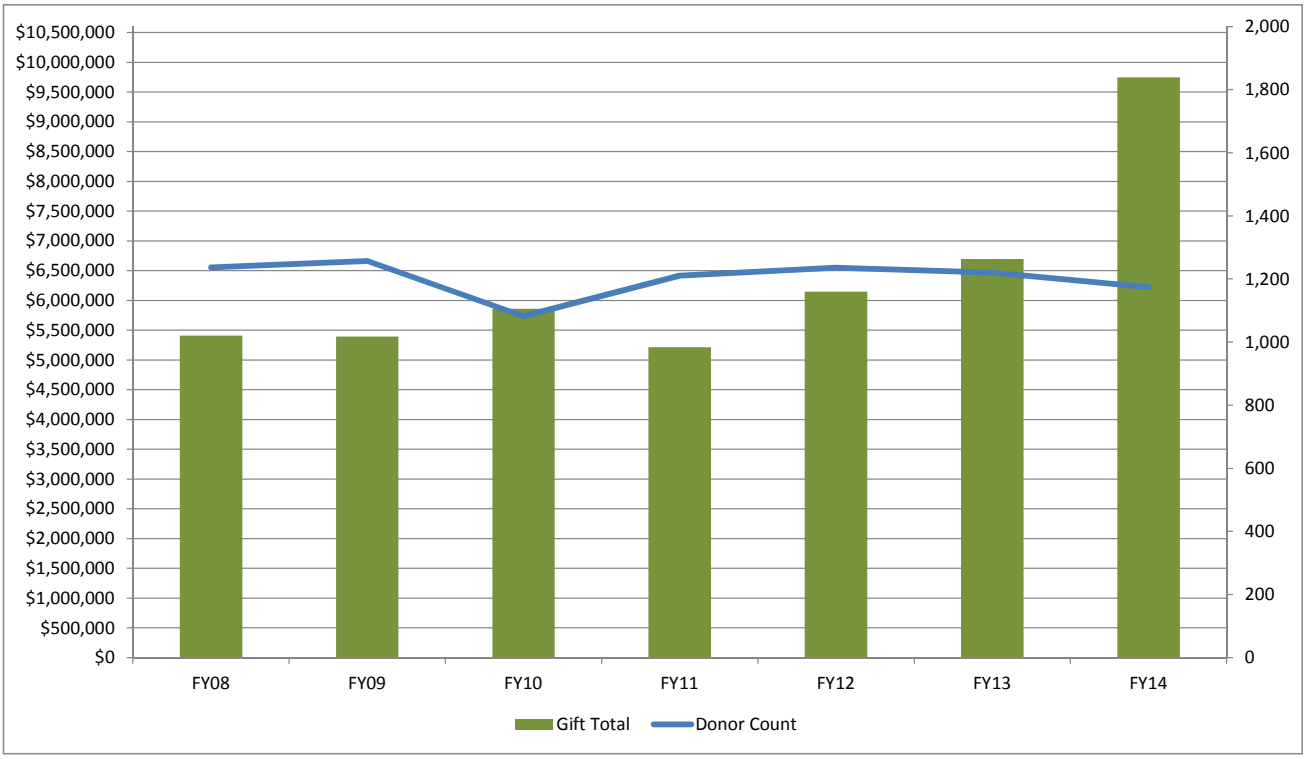
Research Resources FY 2002-2014



Fundraising Summary, June 30, 2014



Donor Count and Gift Totals, FY 2008 - 2014



FY 2015 Source of State R & E Allocated Funds

State General Account	$26,453,700
Federal Formula Funds	5,073,983
Equine Education Account	25,700
TOTAL	$31,553,383

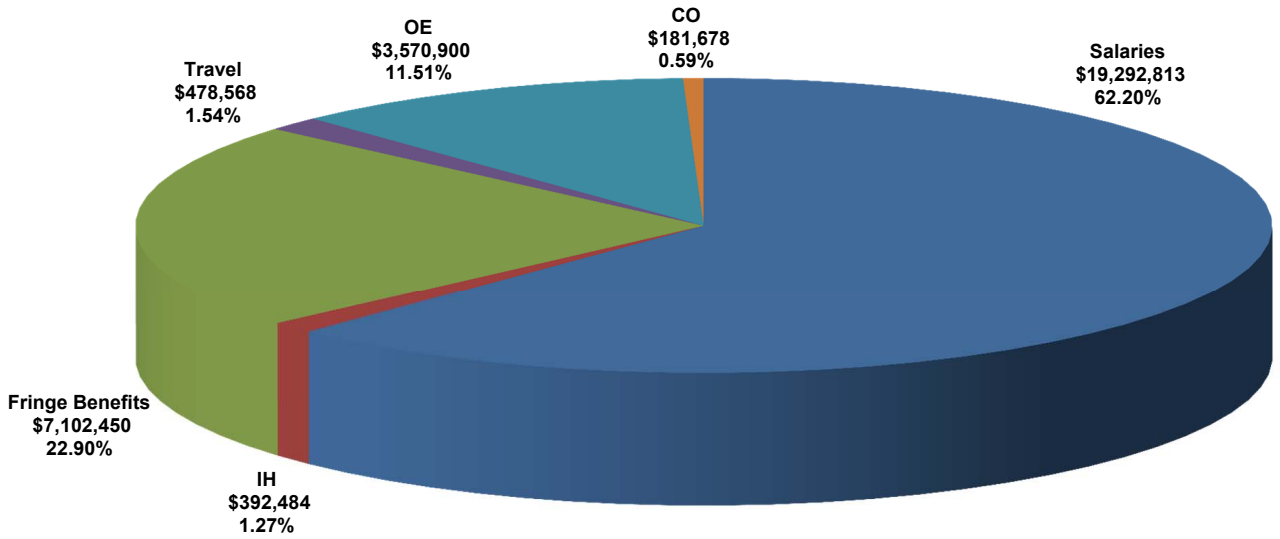
FY 2015 Source of Federal Formula Funds

Hatch Funds	$1,747,425
Regional Research	721,838
Smith Lever	2,604,720
TOTAL	$5,073,983

Research, Extension, and General Education, FY 2015

(Excluding Federal Funds)

Appropriated Budget Total

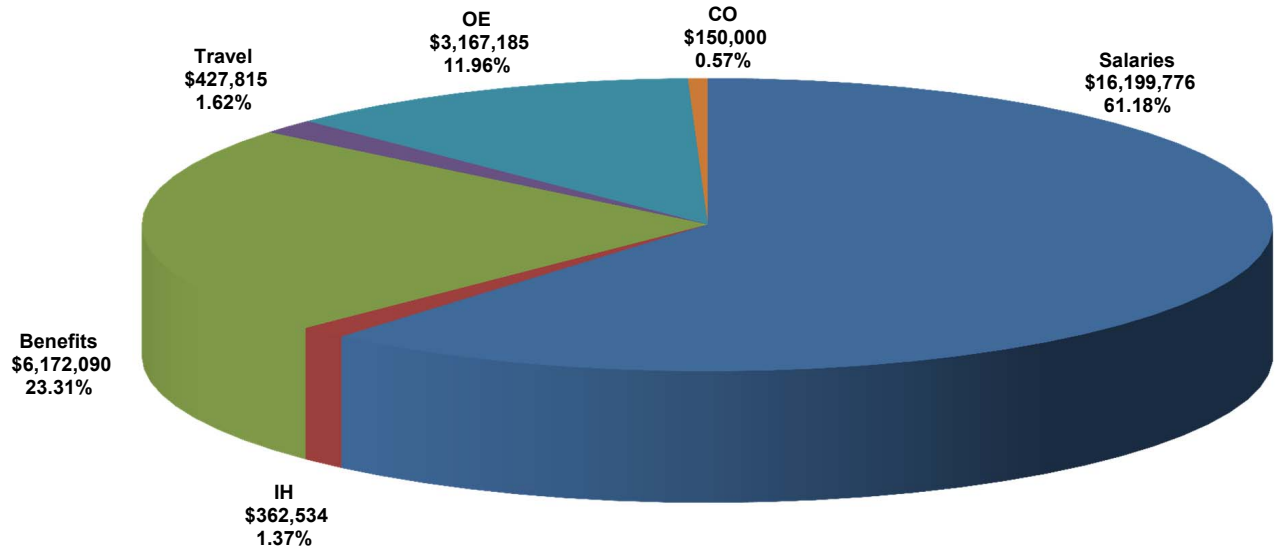


Total Budget = $31,018,893

Research and Extension, FY 2015

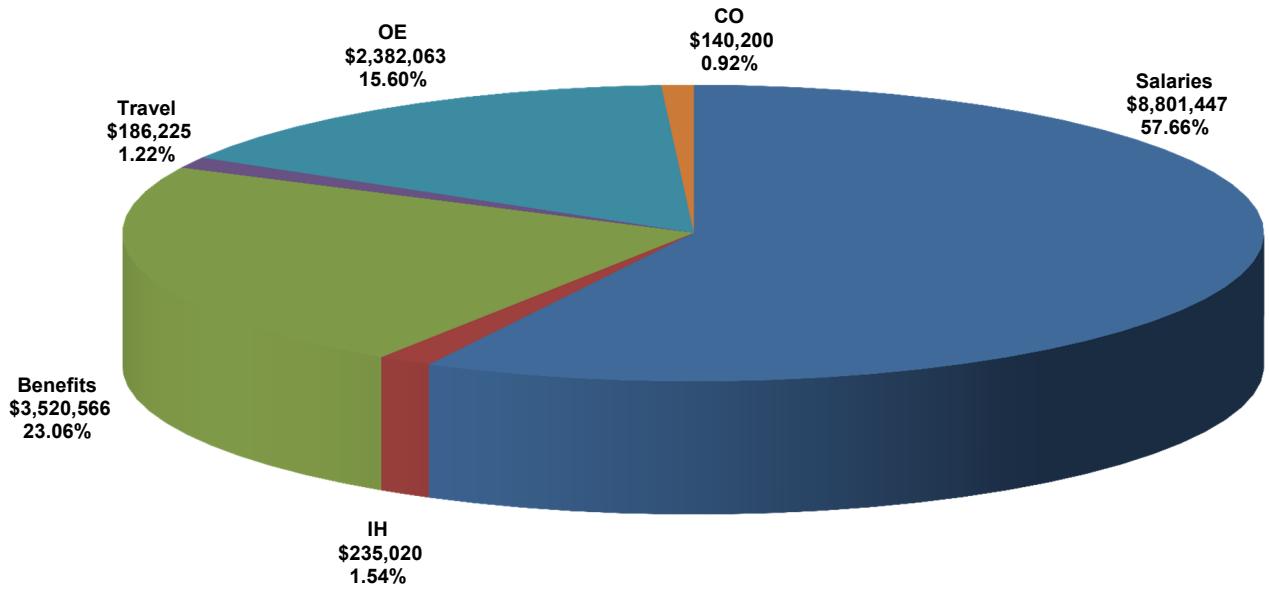
(Excluding Federal Funds)

Allocated Budget by Expense Class



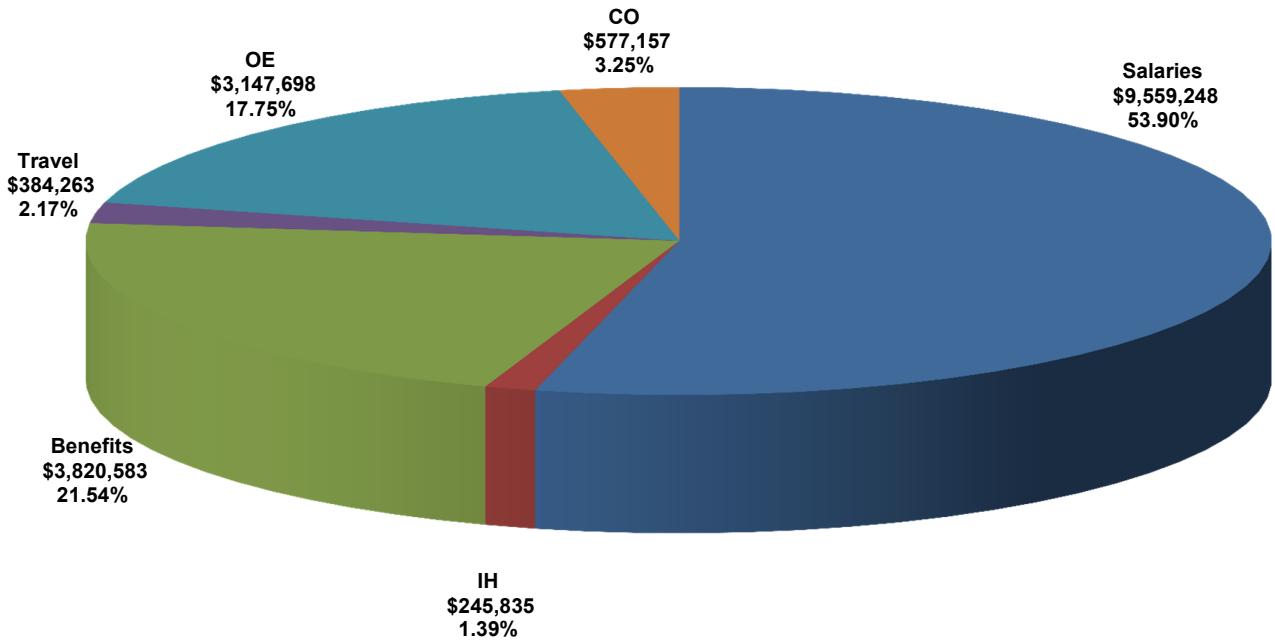
Total Budget = $26,479,400

Ag Research Appropriated Budget, FY 2015
(Excluding Federal Funds)
By Expense Class



Total Budget = $15,265,521

Ag Research Appropriated Budget, FY 2015
(Including Federal Funds)
By Expense Class

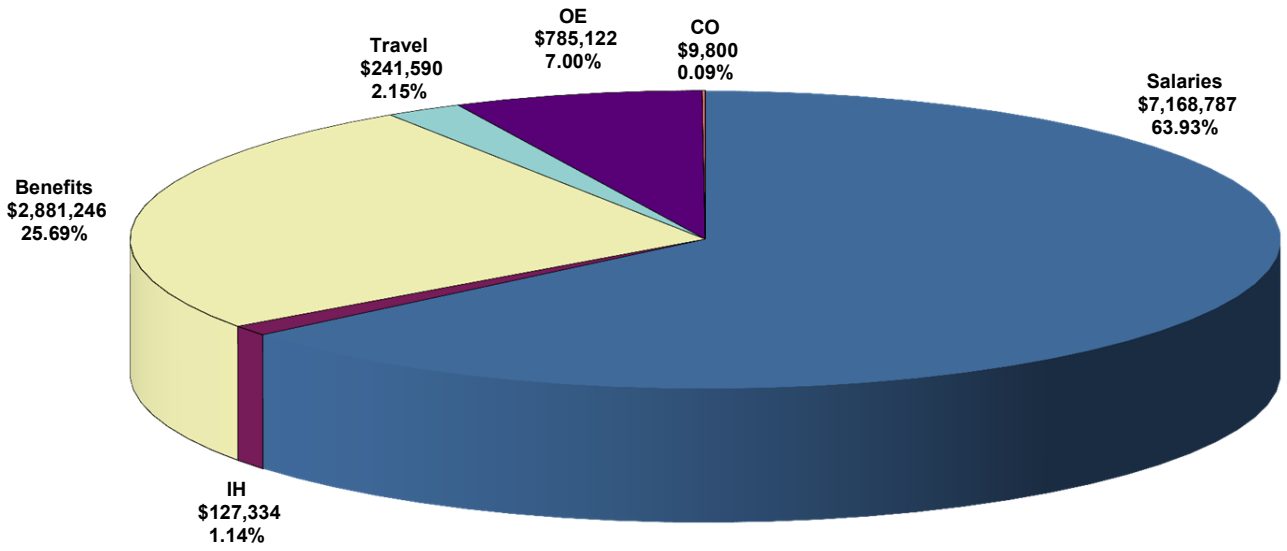


Total Budget = $17,734,784

Cooperative Extension Appropriated Budget, FY 2015

(Excluding Federal Funds)

By Expense Class

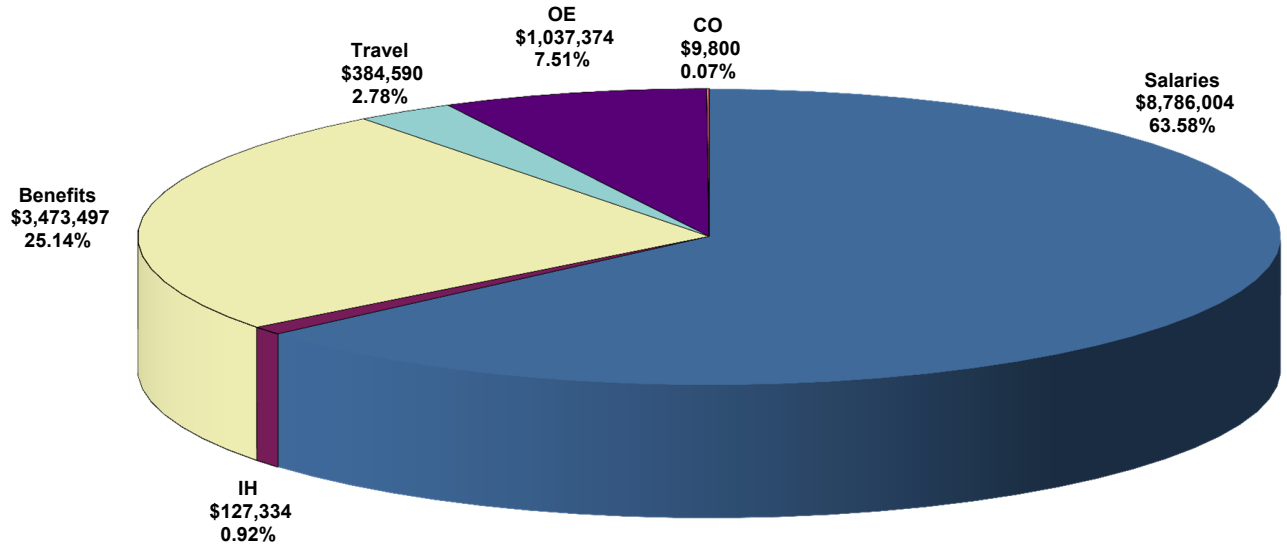


Total Budget = $11,213,879

Cooperative Extension Appropriated Budget, FY 2015

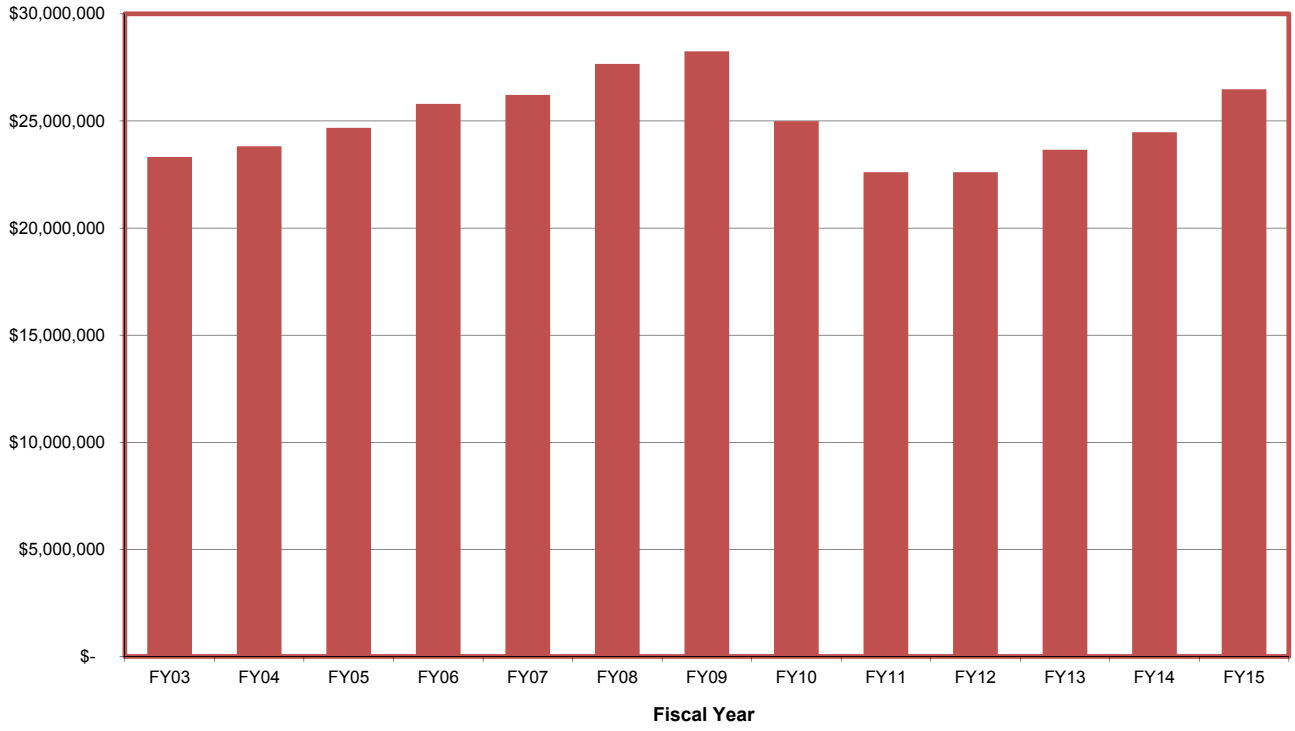
(Including Federal Funds)

By Expense Class

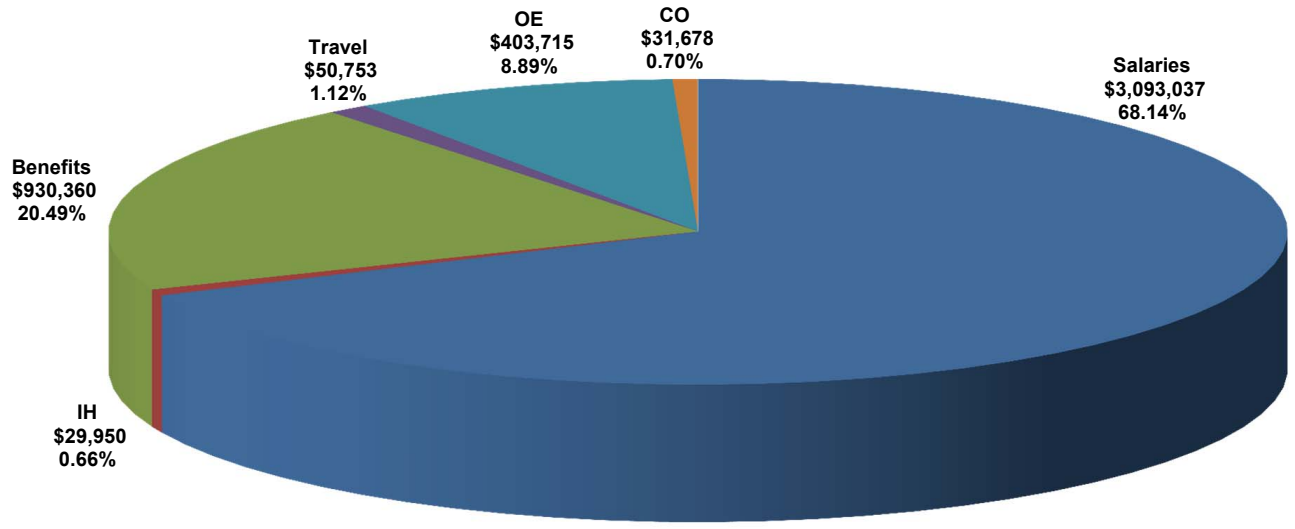


Total Budget = $13,818,599

Agricultural Research and Extension Service (ARES) Appropriation History FY 2003-2015



General Education, FY 2015 Budget by Expense Class



Total Budget = $4,539,493

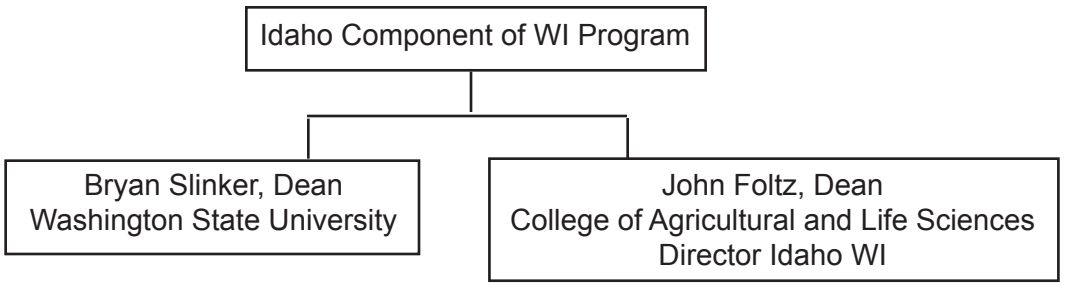
Ag Research and Extension
Summary of FY16 Budget Request

	Gen Acct	Other	Total
FY15 Orig Approp	26,266,500	24,000	26,290,500
Adjustments:		0	0
Addl Revenue		0	0
FY15 Budget Base	**26,266,500**	**24,000**	**26,290,500**
MCO Requests:			
Benefit Cost Increases	260,000	0	260,000
Inflationary Increases (1.81%)	224,600	1,600	226,200
Replacement items for CO base	0	0	0
CEC (1.0%)	195,100		195,100
Occupancy Costs	0		0
Total MCO Increases	**679,700**	**1,600**	**681,300**
MCO Request	**26,946,200**	**25,600**	**26,971,800**
Enhancements:			
5.5 FTE	1,530,600		1,530,600
Total Enhancements	**1,530,600**	**0**	**1,530,600**
Total Request	**28,476,800**	**25,600**	**28,502,400**
% Change from FY15 Original Appropriation			
MCO	2.6%	6.7%	2.6%
Enhancements	5.8%	0.0%	5.8%
Total	8.4%	6.7%	8.4%
% Change from FY15 Budget Base			
MCO	2.6%	6.7%	2.6%
Enhancements	5.8%	0.0%	5.8%
Total	**8.4%**	**6.7%**	**8.4%**

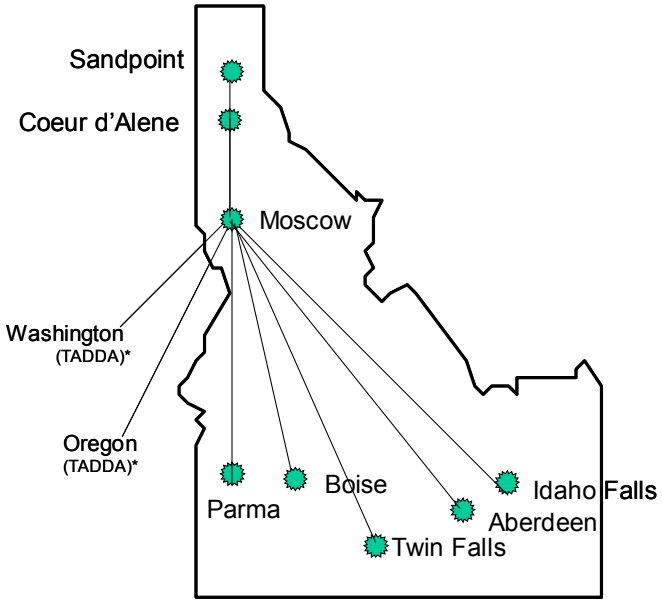
WI Program
Summary of FY16 Budget Request

	Gen Acct	Other	Total
FY15 Orig Approp	1,843,600	100,000	1,943,600
Adjustments:			
Addl Revenue			0
FY15 Budget Base	**1,843,600**	**100,000**	**1,943,600**
MCO Requests:			
Inflationary Increases (Operating)	25,700	0	25,700
Change in Benefit Costs	5,800	0	5,800
CEC (1.0%)	4,8600	0	4,800
Nonstandard Inflationary Increases	25,700		
Replacement Items	111,200	0	111,200
Enrollment Workload Adj	0	0	0
Contract Changes	22,400	0	22,400
Total MCO Increases	**195,600**	**0**	**169,900**
MCO Request	**2,039,200**	**100,000**	**2,113,500**
Enhancements:			
Total Enhancements	**0**	**0**	**0**
Total Request	**2,039,200**	**100,000**	**2,113,500**
% Change from FY15 Original Appropriation			
MCO	10.6%	0.0%	8.7%
Enhancements	0.0%	0.0%	0.0%
Total	**10.6%**	**0.0%**	**8.7%**
% Change from FY15 Budget Base			
MCO	10.6%	0.0%	8.7%
Enhancements	0.0%	0.0%	0.0%
Total	**10.6%**	**0.0%**	**8.7%**

Washington-Idaho (WI) Program in Veterinary Medicine



Distance Education



*TADDA – Tri-State Distance Delivery Alliance

Distance Education FY 1997-2014 Details

Fiscal Year	Number of Courses or Sections	Number of Credits	Number of Students	Number of Student Credit/Hours
1997	56	108	665	1149
1998	74	155	504	844
1999	81	155	501	867
2000	107	243	456	925
2001	111	285	689	1179
2002	136	296	642	1240
2003	194	377	631	1301
2004	187	424	802	1535
2005	187	431	734	1451
2006	178	303	779	1541
2007	199	329	808	1623
2008	176	364	813	1474
2009	156	354	818	1578
2010	148	306	720	1305
2011	158	325	1092	2146
2012	121	279	804	1681
2013	135	356	975	2455
2014	59	151	731	2052

Courses offered in:
Agricultural Education & 4-H Youth Development; Agricultural Economics & Rural Sociology; Animal & Veterinary Science; Family & Consumer Sciences; School of Food Science; Plant, Soil & Entomological Science

Delivery Techniques
- Videotape
- On-site instructors with a cohort group
- Internet
- Streaming video
- Independent study
- Videoconferencing

Agricultural Research and Extension
Facilities, Equipment, and Supplies Replacement Values

Location	Value of Buildings	Value of Equipment and Supplies	Total Value
Palouse R E & E Center	$10,965,849	$5,153,177	$16,119,026
Aberdeen R & E Center	6,170,838	5,011,225	11,182,063
Caldwell R & E Center	4,953,970	804,887	5,758,857
Caine Vet Teaching Center	5,783,789	897,362	6,681,151
Parma R & E Center	6,305,588	2,369,125	8,674,713
Sandpoint R & E Center	892,685	696,671	1,589,356
Tetonia R & E Center	3,810,478	2,888,111	6,698,589
Kimberly R & E Center	3,999,465	3,225,881	7,225,346
Nancy M. Cummings REEC	1,720,643	2,041,014	3,761,657
Dubois USDA Sheep Station	0	72,961	72,961
CES Locations	0	3,665,262	3,665,262
Total	**$44,603,305**	**$26,825,676**	**$71,428,981**

Agricultural Research and Extension Farm Equipment
Aging Analysis as of June 30, 2014

Description *	Class Code	Number	Age (Years) <5	5-9	10-14	15-20	>20
Auto	2300	10	7	1	1	1	0
Trucks	2310	123	60	12	12	18	21
Sport Utility Vehicles	2312	13	5	4	2	2	0
Vans	2315	9	3	2	0	2	2
Trailers	2320	39	9	5	0	6	19
Tractors	2420	73	10	11	9	5	38
Agricultural Equipment	3710	161	28	26	14	15	78
Sprayers	3740	12	3	0	3	1	5
Total		**440**	**125**	**61**	**41**	**50**	**163**
% of Total			28%	14%	9%	11%	37%

Agricultural Equipment includes seed equipment, spreaders, planters, combines, harvesters, loaders, augers, etc.
*Equipment > $2,000 located at Aberdeen, Caldwell, Parma, Kimberly, Sandpoint, Moscow, and Tetonia. Age based on acquisition date.
Source: UI Property Inventory Records.

Agricultural Research and Extension Farm Equipment
Aging Analysis as of June 30, 2014

Description *	State of Idaho Class Code	Number	% Under 10 Years	% Over 10 Years
Auto	2300	10	80%	20%
Trucks	2310	123	10%	90%
Sport Utility Vehicles	2312	13	69%	31%
Vans	2315	9	56%	44%
Trailers	2320	39	36%	64%
Tractors	2420	73	29%	71%
Agricultural Equipment	3710	161	34%	66%
Sprayers	3740	12	17%	83%
Total		**440**		
% of Total			28%	72%

*Equipment > $2,000 located at Aberdeen, Caldwell, Parma, Kimberly, Moscow, and Tetonia. Age based on acquisition date.
Source: UI Property Inventory Records.

Agricultural Research and Extension Farm Equipment
Average Age vs. Expected Life as of June 30, 2014

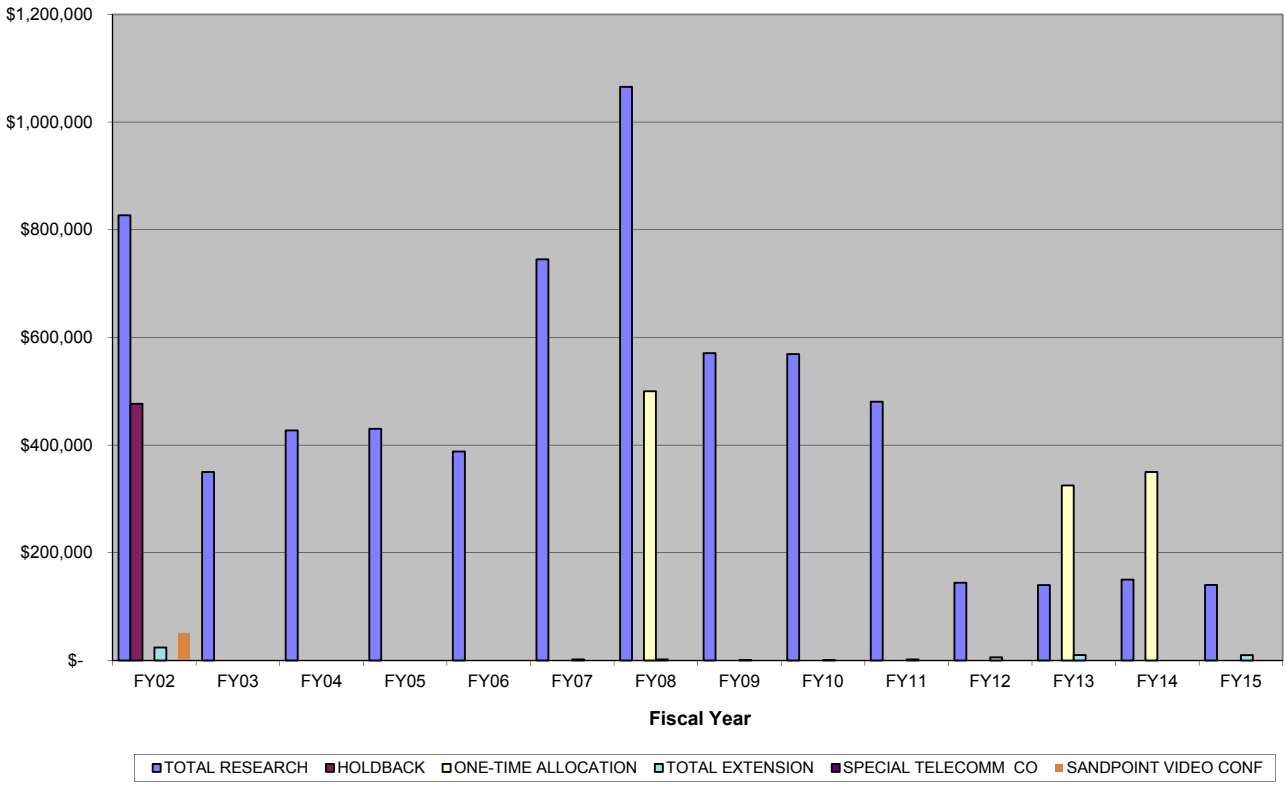
Description *	State of Idaho Class Code	Number	Average Age	Expected Life
Auto	2300	10	4	10
Trucks	2310	123	10	10
Sport Utility Vehicles	2312	13	7	10
Vans	2315	9	12	15
Trailers	2320	39	19	15
Tractors	2420	73	20	15
Agricultural Equipment	3710	161	19	15
Sprayers	3740	12	17	15

*Equipment > $2,000 located at Aberdeen, Caldwell, Parma, Kimberly, Moscow, and Tetonia. Age based on acquisition date.
Source: UI Property Inventory Records.

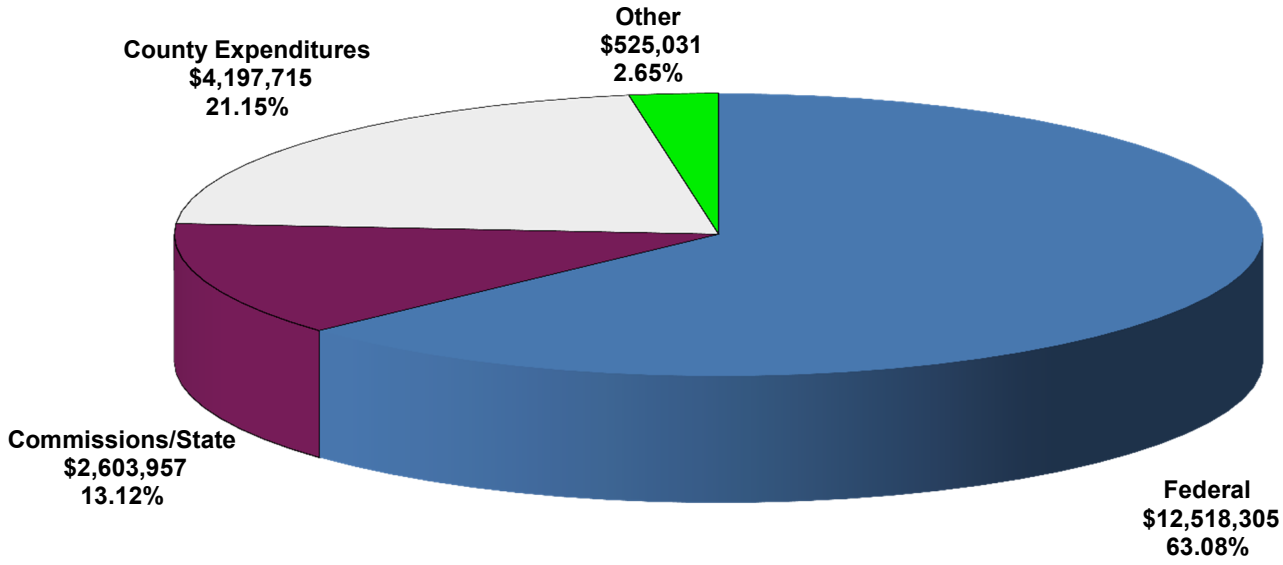
Farm Machinery Repair and Maintenance Cost Parameters

Equipment Type	Total Life Repairs Percentage of List Price
TRACTORS	
2-wheel drive and stationary	100
4-wheel drive and crawler	80
TILLAGE	
Moldboard plow	100
Heavy-duty disk	60
Tandem disk harrow	60
Chisel plow	75
Field cultivator	70
Spring tooth harrow	70
Roller-packer	40
Mulcher-packer	40
Rotary hoe	60
Row crop cultivator	100
Rotary tiller	80
PLANTING	
Row crop planter	75
Grain drill	75
HARVESTING	
Corn picker sheller	70
COMBINE:	
Pull type	60
Self propelled	40
Mower	150
Mower-conditioner	80
Mower-rotary	175
Side delivery rake	60
Rectangular baler	80
Large rectangular baler	75
Large round baler	90
FORAGE HARVESTER:	
Pull-type	65
Self-propelled	50
Sugarbeet harvester	100
Potato harvester	70
MISCELLANEOUS	
Fertilizer spreader	80
Boom-type sprayer	70
Air carrier sprayer	60
Bean-puller-windrower	60
Beet topper stalk chopper	35
Forage blower	45
Wagon	80
Forage Wagon	50

Agricultural Research and Extension
Capital Outlay Budget History FY 2002-2015



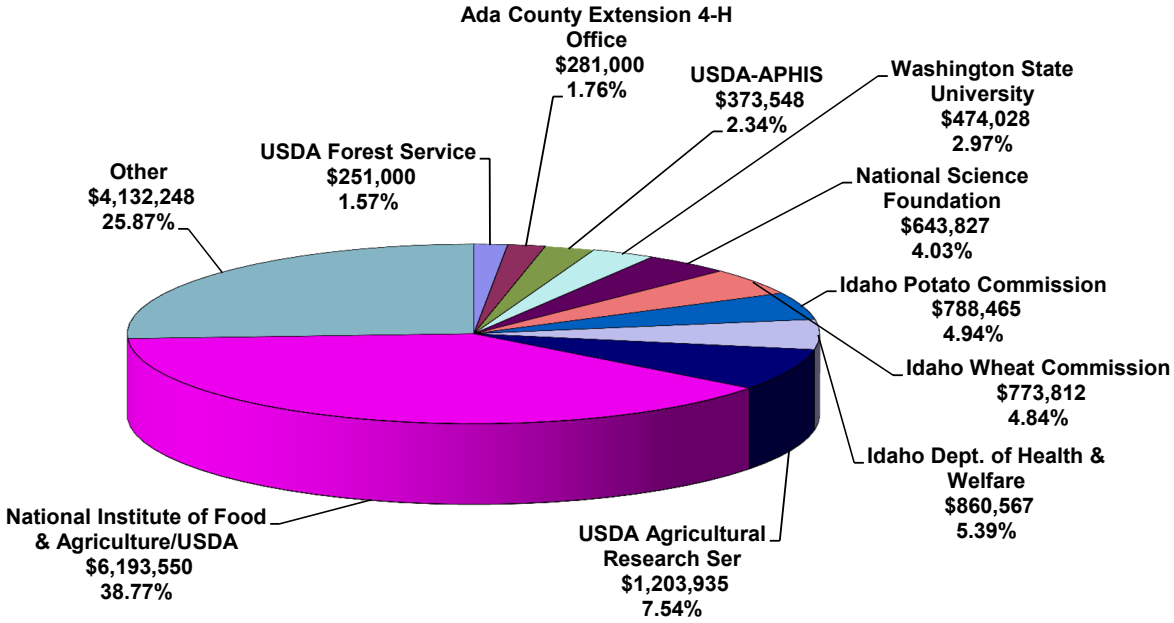
Grant and Contract, FY 2014
Expenditures by Funding Source—Non-Appropriated



Total Expenditure = $19,845,008

*Other includes grants funded by private corporations, other institutions, foundations, etc.

Grant and Contract, FY 2014
Awards by Funding Source—Non-Appropriated



Total Awards = $15,975,980

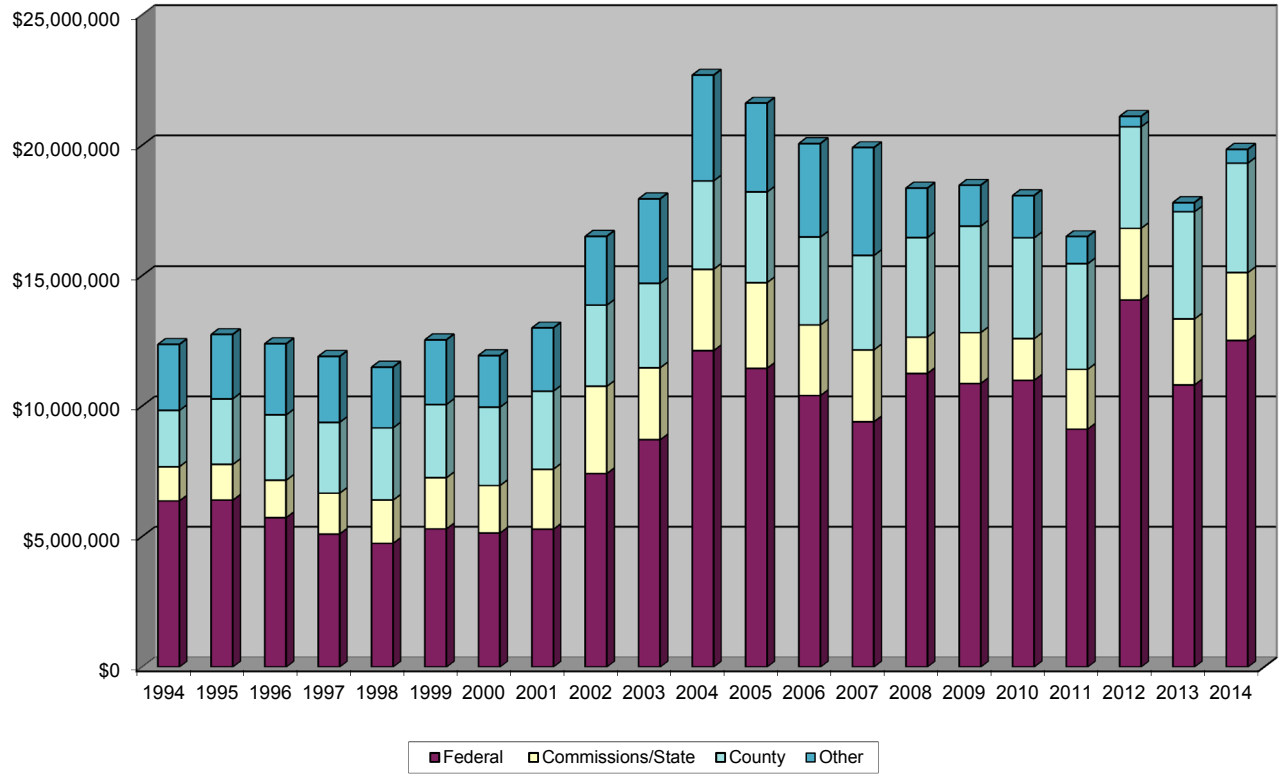
*Other includes grants awarded in the amount of $100,000 or less.

External Grant and Contract Expenditures, FY 1990-2014

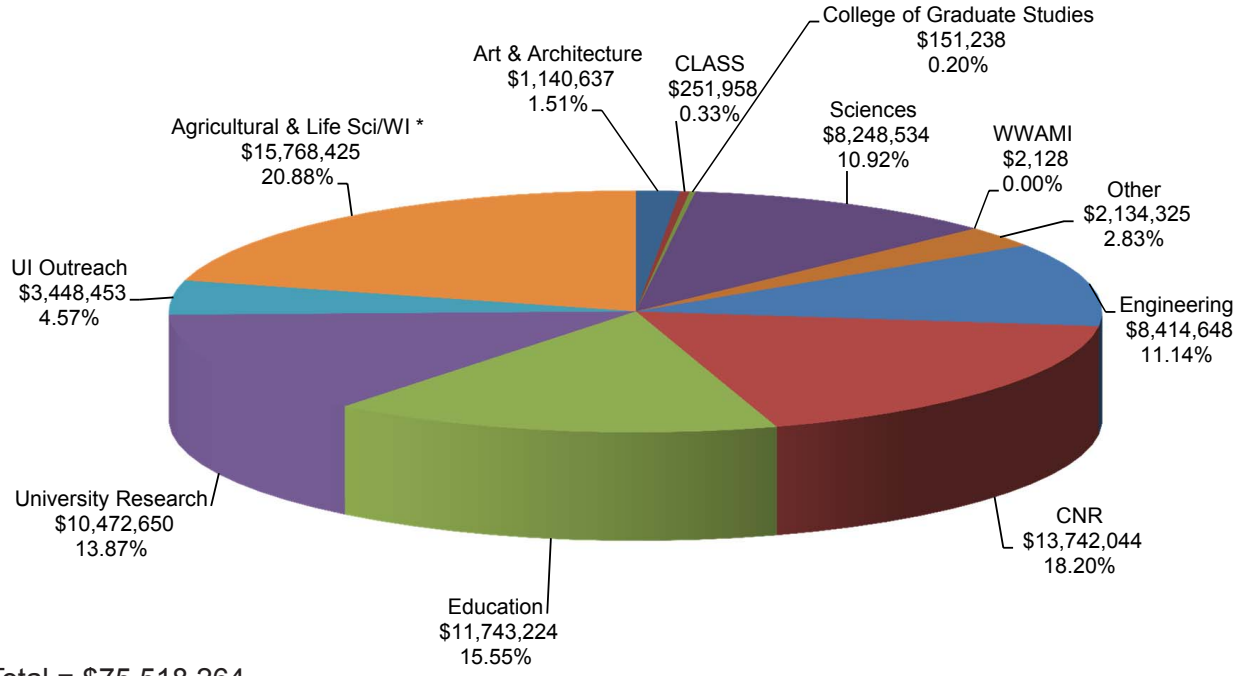
Fiscal Year	Federal Grants *	Commodity Commissions & State Agencies	County Support for Extension	Other/ Private	Total
1990	5,995,104	615,805	1,678,705	1,814,996	10,104,610
1991	5,836,040	802,927	1,773,003	2,067,140	10,479,110
1992	4,965,252	1,043,648	1,902,585	2,003,567	9,915,052
1993	5,567,927	1,178,523	2,107,655	2,208,299	11,062,404
1994	6,368,076	1,310,020	2,155,005	2,528,908	12,362,009
1995	6,396,304	1,367,175	2,518,391	2,465,972	12,747,842
1996	5,729,104	1,431,414	2,505,057	2,723,028	12,388,602
1997	5,099,261	1,563,623	2,716,125	2,522,618	11,901,628
1998	4,741,343	1,657,003	2,768,579	2,325,262	11,492,188
1999	5,297,970	1,959,910	2,807,383	2,478,066	12,543,329
2000	5,133,764	1,821,395	3,002,916	1,981,638	11,939,713
2001	5,279,335	2,301,942	2,993,545	2,419,401	12,994,223
2002	7,415,804	3,342,196	3,112,163	2,639,917	16,510,080
2003	8,709,402	2,763,436	3,232,370	3,243,930	17,949,138
2004	12,128,313	3,120,293	3,390,169	4,048,725	22,687,500
2005	11,451,621	3,286,470	3,472,523	3,405,038	21,615,652
2006	10,408,582	2,704,170	3,373,721	3,584,627	20,071,100
2007	9,401,767	2,757,076	3,618,498	4,133,852	19,911,193
2008	11,255,361	1,392,426	3,811,563	1,896,010	18,355,360
2009	10,870,385	1,949,217	4,084,726	1,565,108	18,469,436
2010	10,992,824	1,593,665	3,866,744	1,621,878	18,075,111
2011	9,118,195	2,291,793	4,049,460	1,039,498	16,498,946
2012	14,065,919	2,750,351	3,895,012	395,286	21,106,568
2013	10,812,247	2,530,244	4,109,368	353,650	17,805,509
2014	12,518,305	2,603,957	4,197,715	525,031	19,845,008
% Change:					
13 to 14	15.78%	2.91%	2.15%	48.46%	11.45%
90 to 14	108.81%	322.85%	150.06%	-71.07%	96.40%

* Federal Grants do not include federal formula funds.

Grant and Contract Expenditures, FY 1994-2014
By Funding Agency



Grant and Contract Expenditures, FY 2014
By UI College/Unit



Total = $75,518,264

*Excludes College of Agricultural and Life Sciences grant expenditures flowing through institutes (e.g. EBI, IWRRI).

2014 University of Idaho Combined Research and Extension Annual Report of Accomplishments and Results

Report Overview
This combined report of accomplishments for the College of Agricultural and Life Sciences (CALS) represents 102 Extension faculty FTEs in outreach education programs and 64 research faculty FTEs. The Extension FTEs are contributed by 74 county-based Extension Educators organized into three extension districts and 47 Extension Specialists affiliated with academic departments. Extension programs are conducted by faculty organized into 10 program teams (Topic Teams). Extension partners on those teams have generated approximately $8.2 million in external grant support and have recorded 375,350 direct teaching contacts. Extension faculty produced 61 peer-reviewed Extension publications and 74 articles in professional and scientific journals. To summarize research faculty, they contributed to 13 program teams (Topic Teams) and outputs included 157 publications, 2 plant patents filed, and $29,369,419 of extramural funding expenditures.

The Merit Review Process that was Employed for this year
- Internal University Panel
- Combined External and Internal University Panel
- Expert Peer Review
- Other (administrative review)

Faculty continue to use traditional and novel methods to involve stakeholders as advisers. Several of our counties have complete mailing lists for all households in the county. In some cases, distributing mail surveys to every address in a county has been used during the past several years. In 2013, one such survey was a multistate effort seeking input from small farm producers in Idaho and Washington. To encourage participation in focus groups, few local budgets can support cash incentives, but nearly all such activities provide food and refreshment for participants; some are able to advertise that a meal will be served to those who participate. To gather stakeholder input from our growing Spanish-speaking population, announcements are printed and broadcast in Spanish through appropriate venues. In some cases (nutrition education, for example), Latino community leaders were invited to sessions specifically to help the University understand better how to assess the needs of their communities, including socio-economic categories of residents less likely to have participated in past sessions. In most cases, people are enticed to provide input as they are taking advantage of opportunities to learn something that meets their personal needs.

The major stakeholder groups providing input regarding the IAES's spectrum of research activities include the following:

The Dean's Advisory Board was instituted in 2002. This committee is comprised of a spectrum of stakeholder representatives representing government, industry, and education in Idaho. Academic departments of CALS also have individual advisory boards (see below).

Idaho's 17 agricultural commodity commissions and organizations provide advice specific to commodity based programs and appropriate disciplines and departments within CALS. In addition, IAES researchers provide leadership and most of the content for several major commodity schools that are presented annually in the state. The commodity schools are well attended by stakeholders from Idaho and the region. These "schools," while primarily conducted as major outreach/technology transfer events to provide the latest research results to stakeholders, also serve as major sources of stakeholder input to IAES regarding research priorities and directions. Commodity schools are annually conducted for potato, cereal, and sugar beet industries. As an example, the UI Potato School is a three-day event that annually attracts approximately 1,400 registrants who come from Idaho, the PNW region, virtually all other states involved in potato production as well as representatives from approximately 25-30 foreign countries.

Beyond the commodity schools mentioned above, IAES faculty organize and participate in "field days" at each of the IAES's six off-campus Research and Extension centers. They also conduct a number of more focused tours or workshops such as: weed identification, ecology, management and technology at several locations, potato storage research open-house, pomology program open-house and field day, and tours of the IAES's

crop genetic improvement research programs for beans, potatoes, wheat, and the oilseed crops of rapeseed and mustard. Again, these stakeholder events function as educational/technology transfer events as well as opportunities for stakeholder interaction.

The IAES research project portfolio and an abbreviated version of the POW is annually shared and discussed with representative from the executive branch of state government including the Governor's Office, the Dept. of Agriculture, and to a lesser extent, the Dept. of Environmental Quality, Dept. of Health and Welfare, and the Dept. of Commerce as well as key committees (agriculture and appropriations) and leadership of the Idaho Legislature.

The faculty, staff, and students (both graduate and undergraduate) of CALS have a vested interest in the development of appropriate research programs of high quality that are responsive to needs of the state and region. This university stakeholder group is an important source of valuable input to the IAES and play a major role in IAES program development and delivery. In the course of performing their research, the majority of researchers in the IAES have frequent and substantive contact with stakeholders in their research programs as has been indicated above. An array of inputs regarding program directions and priorities are more informally received in this manner and are subsequently considered and often implemented.

CALS has also mandated the formation of advisory committees for each of the eight academic departments in CALS. As of 2002, all departments of CALS established advisory committees. These committees are comprised of representatives from a broad base of stakeholders sharing interest in the disciplines, programs, and strategic plans of the departments. These committees are now serving as a significant additional source of stakeholder input for the IAES and CALS. In addition, once a year in on-campus meetings the departmental advisory committees meet with the CALS and IAES leadership as well as with the Dean's Advisory Board on program priorities and directions for the college, the experiment station and the departments. One representative from each department's advisory committee serves on the Dean's Advisory Board.

University of Idaho Extension has citizen advisory groups in 42 of Idaho's 44 counties and active 4-H promotion and expansion committees in most counties. These committees, which are composed of a very diverse and broad mix of public interests, provide input regarding extension and research program priorities from the county perspective. In some counties, "Friends of Extension" gatherings are scheduled and widely advertised to attract residents to stakeholder input meetings. Extension Specialists have advisory groups as well, many of which are formally associated with producer organizations or commodity interests. A Statewide 4-H advisory Board and a Statewide Extension Advisory Board contribute annual input to guide Extension programs.

Beginning Master Gardener classes were delivered serving 14 counties plus a mens work camp. Advanced Master Gardener classes and projects were delivered in six counties. Shorter, more accessible gardening class series' were also delivered by educators in 12 counties.

Outreach for commercial producers included collaborations with the Idaho Nursery and Landscape Association at the HortExpo, the Idaho Green Collar College, the Certified Nursery Professional course, a professional diagnostics course, wholesale ornamentals workshop, several IPM workshops for commercial growers, table grape management workshop, a golf course xeriscaping project, and through collaborations with local nursery retailers, including on-site training.

Supervised Master Gardeners and Advanced Master Gardeners delivered more than 100 presentations for local gardening groups and interested publics, served hundreds of residents who sought assistance in our plant clinics, and contributed to dozens of community projects including school gardens and community gardens, and water conservation and FireWise demonstrations. In one county alone, Master Gardeners contributed more than 1,200 hours of community service, much of that in association with community gardens that combined to contribute more than 50,000 pounds of produce to low income residents in 2013.

Media outreach is conducted through regular contributions to seven local newspapers, local TV and radio interviews, and through targeted newsletters and trade publications.

The **Cereals Team** conducts dozens of field trials across the state to document the performance of wheat and barley varieties; to evaluate diseases, disease resistance, and disease management techniques; and to assess fertility management, irrigation, cover crop and rotational crop options, weed management, and other cultural practices. In 2013, knowledge gained through these trials was delivered to growers and consultants through nine cereal schools and 14 various crop tours and field days. Faculty members deliver programs for pesticide applicator certification and re-certification. Team members participate as advisors to grain producers' associations and collaborate with major industry partners. Cereals Team members publish their findings in Extension publications and share new information through trade magazines and local media outlets.

The **Community Development Team** has implemented the Community Coaching for Grass Roots Action program to meet the needs of rural communities that desire a focus on action (rather than protracted educational delivery). Similar involvement is reported for several local economic development councils and similar citizen-led initiatives, several of which formed through catalyzing efforts by Community Development Team members.

To help communities understand inter-related activities, Ripple Effects Mapping has been initiated in several Horizons communities. Customer Service workshops, Business and Community Entrepreneurship, and Smart Growth workshops have been delivered, as have been a number of workshops that focus on local, sustainable food systems and enterprise development, including support for Big Wood River Raspberries, local farmers markets, the Blue Sage Farm and Green Goat Farm, work on forages and marketing, and exploration of a Sustainable Food Systems Farm. Extension conducted an economic impact study and a rapid market assessment.

A youth entrepreneurship program was initiated as a pilot for the state and faculty continued delivering USDA Rural Business Enterprise Grant funded workshops on small business development, primarily focusing on art marketing. Work began (with Washington State University Extension) to plan a joint small business development training that is a collaborative effort with other small business service providers.

In cooperation with community leaders, faculty helped to organize and manage several community projects, including a Xeriscaping Golf Course project, Community Gardens, People's Gardens, County Fair projects and a Fire-Wise Landscaping project. Other efforts include a county comprehensive groundwater plan, emergency preparedness plans, and a civil defense working group.

Families are included in the community development portfolio through the Just-in-Time Parenting program (website and newsletter), estate planning workshops, and the Idaho's Journey diversity tour.

During 2013, CALS representatives met at least once with each of Idaho's commodity commission groups. In general, these meetings were conducted to determine priorities for research and extension programs relevant to the commissions. CALS administration met two times with the Deans Advisory Board and once with faculty as a group in each of Idaho's four administrative regions. At each of these meetings, representatives are asked to help identify those who should be asked to serve on future advisory boards. Other important venues for collecting stakeholder input included Extension Annual Conference and annual Ag Summit and legislative strolling dinner in Boise. The Dean or his designee also met with state legislative leaders in Boise regarding agriculture, science and technology, environmental issues, and educational appropriations. These meetings included testimony before several legislative committees as well as informal meetings. CALS research and extension faculty held numerous field days and commodity schools across the state.

Counties follow specific marketing plans that are developed locally, based upon the demographics and characteristics of their communities and populations. Those plans specify efforts needed to ensure parity in program audiences. Depending on faculty areas of expertise and program efforts, stakeholders may be quite easy to identify (for example, potato growers or dairy owners) or may be more difficult to locate (for example, expectant parents or families in financial difficulty). For farmers and ranchers, Extension cooperates with the Idaho State Department of Agriculture or other appropriate agencies to verify contact lists, including lists of those individuals who are licensed to apply pesticides. Extension faculty partner with the Idaho State Department of Lands, using forest taxpayer lists to help identify private forestland owners. For low income audiences, Extension works with schools, with the Department of Health and Welfare, the

local faith community, the Idaho Food Bank and the Idaho Hunger Relief Task Force to identify issues and potential clientele. Partnerships with AARP-Idaho and other advocacy organizations have been instrumental in reaching targeted audiences.

County faculty report that requests are made to advisory committees and to local government leaders and private citizens to help identify new stakeholders. Extension Specialists report that they use commodity organizations and other groups in a similar fashion. New faculty are particularly reliant on veteran faculty to help guide them to stakeholders.

The 2013 activities conducted by the **Land and Livestock Team** focus on three resource issues: rangeland management, forages, and beef production. Due to the integrated nature of clientele needs, most of the activities are delivered by a team of county educators and specialists (joint appointments with research and extension) who bring expertise from various disciplines to share with learners. Among the most common activities are beef schools, forage schools, range school, grazing academy, BQA workshops, weed workshops, monitoring workshops, demonstration/applied research trials, Extension publications, popular press articles, tours, field days, faculty training sessions, and farm/ranch visits. The focus of these efforts will depend on stakeholder input, questions, and needs. When appropriate, information generated by the team will be presented in scientific journals and at professional meetings.

Activities focusing on range and grazing lands included the Lost Rivers Grazing Academy, hands-on Management Intensive Grazing (MiG) workshops, a long-term grazing demonstration, and an annual grass grazing research project. Faculty members also work with Federal land managers and permittees to improve management and cooperation among stakeholders for those lands.

In the arena of forages, faculty members delivered forage schools, conducted field trials and hosted field days for promising forage crops (alfalfa, sorghum X sudangrass, dual purpose cover crops, and irrigated crop residues), contributed to weed-free hay exchange programs, conducted training for pesticide applicators certification and re-certification, and published articles in popular and trade magazines and newspapers/ newsletters and Extension publications. Multi-state activities included development of the Pasture Management Professionals workshop in Colorado, the Pacific Northwest Forage Workers Conference in Wyoming (WERA 1014), and a regional Pasture Symposium in partnership with the ARS and Utah State University personnel.

Livestock production activities included a dozen winter beef schools, training and certification for Beef Quality Assurance for producers and BQA tours, Cowboy School, numerous workshops and conferences for producers and professionals, continuation of a vaccine storage and handling educational program, and published articles in popular and trade magazines and newspapers/newsletters and Extension publications.

Integrated among forages, rangeland and livestock production are numerous activities related to invasive species management including weed spray days, the Idaho Weed Conference, contributions to the PNW Weed Management Handbook, collaborations with numerous cooperative weed management associations and weed supervisors, several weed schools, organization of the Idaho Biocontrol Task Force and technology transfer workshops for tribal land managers in Idaho, Washington and Nevada.

The **Dairy Team** continued to focus on training for dairy workers, in classrooms and on dairies. New programs included development and delivery of an animal care curriculum for dairy workers and a significant effort to make dairy workers aware of animal welfare concerns. The team continued the series of workshops for dairy middle managers (in English and Spanish) this year focusing on reproduction and artificial insemination schools in Spanish and English.

Team members continued numerous projects with local dairies and contributed to multistate activities including the PNW Dairy Monitor the Future of Western Dairies Roundtable, and the Western Association of Agricultural Economists symposium on the financial status of dairies, and the DAIReXNET website.

The **Family Economics Team** created and delivered dozens of presentations for a variety of participants. Primary emphasis on Personal Credit was delivered through 25 lessons and workshops. Affordable Health Care was the subject of six workshops, and identity theft lessons were delivered 10 times. Lessons for seniors included 20 sessions about retirement, including Medicare and senior scams, while pre-retirement audiences attended workshops on retirement planning, inheritance, and estate planning.

Youth financial management included 69 events teaching Welcome to the Real World to teens, 16 sessions of Credit Card Millionaire. Fifteen sessions of Money on the Bookshelf and Bank on It were delivered to elementary-age youth. Extension faculty continued to promote the High School Financial Planning Program and certified 54 high school teachers at three locations in 2014, including 18 who took the class for university credit.

Indirect methods to reach learners included newsletter and public media articles and interviews, video spots, and a website.

The **Farm and Ranch Management Team** delivered a variety of courses and workshops in 2013. Six to twelve-week farm management courses were taught in four Idaho counties, including farm management training required to meet FSA borrowing requirements. Individual schools, classes, workshops and workshop series covered topics including estate and succession planning, marketing and risk management.

UI Extension faculty members partnered variously with the Fort Hall Tribal Tax Department, the Intertribal Agriculture Council, the Western Risk Management Education Center, and Idaho State University to create and deliver a suite of programs including a tax clinic, a farm business management course, and related educational services for the Fort Hall Reservation and Southeastern Idaho farmers and ranchers. Elsewhere, educational events included farm tools workshops, futures workshops, and presentations at various grower meetings covering topics such as fertilizer economics, rental formulation for pasture, and the economics of irrigation efficiency. The Farm and Ranch Management team members maintain current publications for enterprise budgets and also contribute to numerous regional economic studies each year. In 2013, regional contributions included a grazing lease rate study, a wolf-cattle interaction project, and a ranch-level economic analysis of the impact of juniper encroachment onto grazing lands.

The **Food Safety Team** delivered more than 400 educational programs for widely diverse audiences. Five-week series of food preservation classes were taught in each region of the State. Topics of individual workshops and presentations ranged from bacteria and sour dough to acid canning, freezing and drying foods, to spoilage and rodent sanitation. More than 100 individual programs were delivered on food preservation to nearly 1,500 contacts. Team members continue to develop and deliver new programs that tie into special needs/interests of the public, including safe practices for holidays, organic foods issues, and genetically modified foods. The Food Safety team has conducted research leading to development of new food safety knowledge and best practices related to infused oils, garlic, and jerky.

Three organized courses of study were delivered for Master Food Safety Advisors across the state and two counties offered complete training for Advanced Master Food Safety Advisors. Thirty-seven sessions of the Preserve@Home web-based course were taught by UI Extension, including collaboration to deliver 21 courses offered in Montana, California, Colorado and Oregon.

UI Extension taught 11 sessions and facilitated the delivery of Ready, Set Food Safe curriculum to high school students by supporting collaborating teachers delivering the program in more than 100 Idaho classrooms and nearly 500 Idaho children participated in Germ City. The EFNEP and SNAP-Ed educational programs for limited resource families included food safety as part of their outreach to thousands of learners. Germ City was deployed at elementary schools across the state.

Food safety programs delivered to industry included HACCP, BRC, and related topics for 10 companies in 2013 workshops. Direct education is supplemented by brochures, newsletters and newspaper articles that reach thousands of additional learners each year.

The **Potato Team** is highly integrated, participating in active projects to discover new knowledge, demonstrate and transfer new technologies, and work to understand local variants that impact potato production and storage. Members of the Team meet regularly and otherwise collaborate with industry associations and the Idaho Potato Commission to understand needs of stakeholders.

Zebra Chip was an important topic for stakeholders and was included in the portfolio of research and Extension activities targeting diseases and pests. Work continued on Potato Viruses X and Y, wireworm, Late Blight, and Early Blight, including field and greenhouse experiments to understand the ecology and treatment options for serious potato pests in the field and in storage, nutrient management questions, and the value of various soil amendments. Field demonstrations help growers and other stakeholders understand the impact of various planting and pest management practices and irrigation needs and strategies. These applied activities have been shared through the Idaho Potato Conference as well as a host of workshops and classes and numerous field days and tours. Spanish language workshops were delivered for the fourteenth consecutive year at the potato conference; attendance in the Spanish workshops has grown from fewer than 40 to nearly 120 in 2013.

Dozens of workshops and articles in trade publications, presented or written by UI faculty, brought information to the industry about potato bruising and storage, costs of production, taxes, pathogens and disease control, best-irrigation, fertilization and fumigation practices, and many more. Faculty also produced an array of refereed and Extension. Much of the Extension faculty's work is made possible through collaborations and participation on various citizen and professional alliances concerned with environmental quality and agricultural sustainability.

The **Small Acreages and Emerging Specialty Crops Team** delivered intensive educational programs that focus on sustainable use of lands and natural resources, including the 8-week "Living on the Land" course (delivered in two counties) and a 6-week version adapted to meet stakeholder needs and delivered in the Magic Valley. Elements of the "Cultivating Success" course were incorporated into a variety of programs including programs about starting and planning your business, food safety regulations, and rapid market assessment aimed at farmers' market vendors and producers. Other educational events for small acreage farmers and ranchers were delivered through several conferences and as individual workshops covering topics such as sustainable animal and vegetable production workshops, permaculture, and producer-chef connections.

There is growing interface among our small farms, horticulture, and nutrition education teams to deliver programs that intersect local food systems, community vitality and nutrition and health. UI faculty members worked with three community advocates from three regions within the State (and including adjacent state partners) to evaluate food systems and investigate potentials for food hubs. Others worked with their communities to invest in local food systems as a way to help end hunger and food insecurity.

Efforts to deliver education about farm business planning continued through an online course: Planning for Profit II. Faculty organized a number of events which focused on Farmers Markets, direct marketing opportunities, opportunities for enterprise development, and agri-tourism. The team delivered educational messages through numerous media including websites (and an on-line course offering), Extension publications and a small farms newsletter.

The **Sugar Beet and Minor Crops Team** integrated field research, demonstration, and outreach education primarily related to numerous crop pests and diseases, and to irrigation systems and soil moisture relationships. Studies exploring relationships between irrigation, soil moisture, and soil-borne pathogens such as rhyzomania and rhyzoctonia are underway in multiple settings. Field studies and tours were conducted in collaboration with growers and in UI Agricultural Experiment Station fields to study onions, sugar beets, dry beans, and sweet corn. Pest diagnostic services and treatment recommendations are provided for growers. Economically important pests studied and reported include onion thrip, Rhizoctonia, Aphanomyces, leaf minor and curly top. Significant efforts were devoted to weed management, pesticide registration, development and extension of knowledge about IPM tools, and soil moisture/irrigation protocols influencing pests and diseases. A survey was conducted to learn about IPM practices currently used by sugar beet growers.

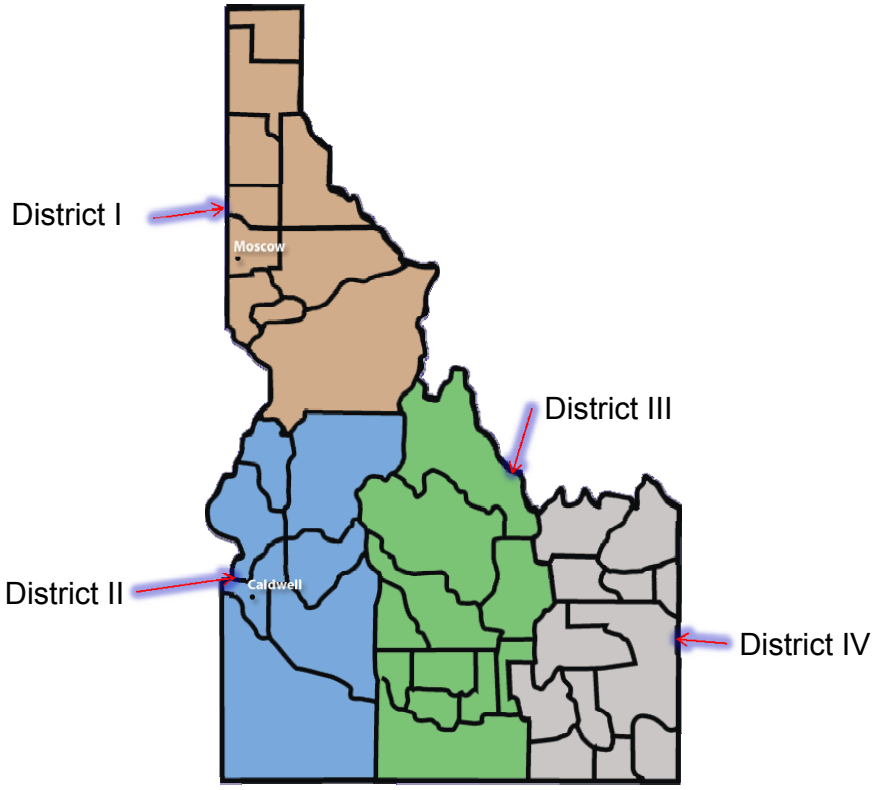
New and practical information was shared through a dozen regional conferences and commodity schools. PNW pest management handbooks were updated and IR-4. Faculty prepared a host of Extension publications and research publications explaining their findings to end users and to other scientists.

The **4-H Youth Development Team** engaged about 70,000 youth participants in life-skills focused learning, through traditional club programs in each county in Idaho, summer camps, day camps, science camps (including robotics, GPS, Entomology, Geology, Aeronautics, and more), livestock camps, and other project camps (some in collaboration with neighboring States), and a host of other venues for reaching children. Much of the focus on individual club programs is a multidisciplinary approach to learning. For example, youth were taught kitchen skills through the science of baking; they explored how baked goods are leavened and how each of the leavening agents were used and how they work; and they learned the math of measuring ingredients and the art of knowing when the product is mixed and baked, and they learn nutrition and the value of eating whole grains.

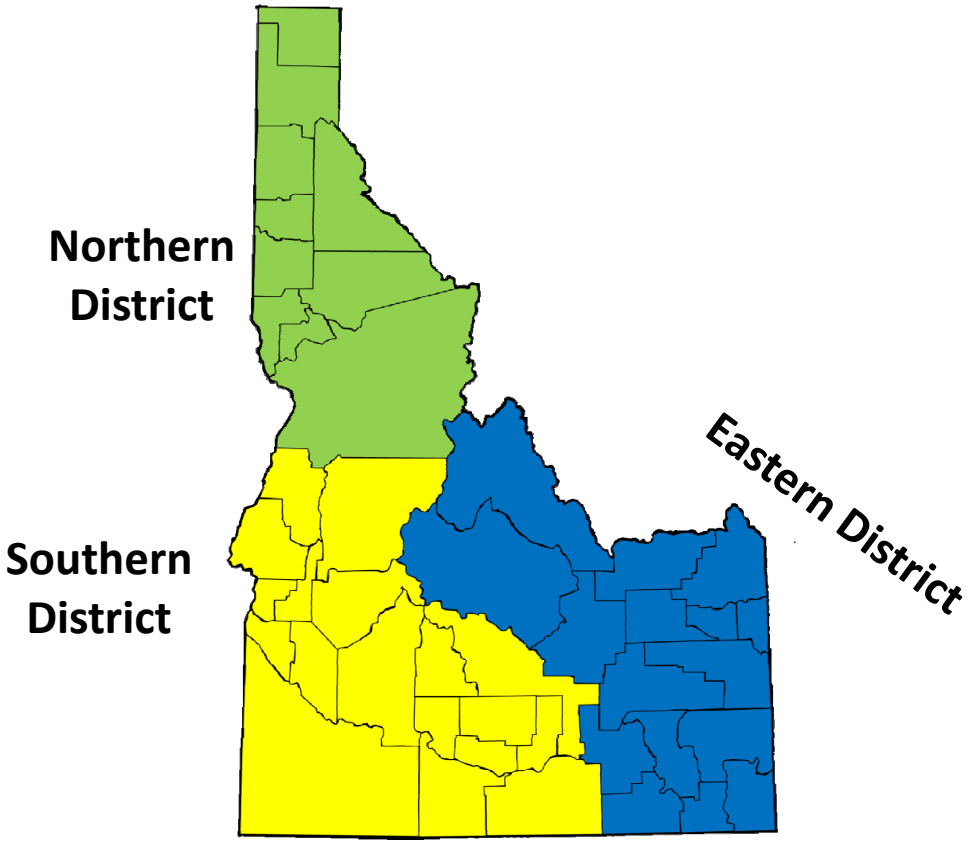
Faculty and 4-H Coordinators supported or managed 4-H afterschool programs, school enrichment programs, and managed 4-H activities at County Fairs, including training of judges. 4-H professionals coordinated the work of 5,000 adult 4-H volunteers and to youth volunteers and provided leadership and curriculum training to more that 4,100 of those volunteers. UI Extension 4-H professionals collaborated with school teachers to present the National Science Project and to recruit youth to other 4-H programs. Primary emphases were placed on projects and activities that promote interest in science, engineering and technology, and that promote healthy living choices.

4-H faculty are engaged in multistate efforts to train livestock judges, to provide professional development for 4-H professionals, and to collaborate with adjacent states to share resources for program delivery. Older 4-H members were challenged to become productive citizens through the 4-H Ambassadors program, Teen Training, Camp Counselors programs, Know Your Government. Outreach to underserved youth included significant efforts with the Shoshone-Bannock and Nez Perce Tribes, with numerous afterschool programs (two partially supported by CYFAR grants), through Operation Military Kids, and with targeted day camps.

Old Extension District Configuration



New Extension District Configuration



University of Idaho Extension
Performance Highlights

Preparing Youth for Success

University of Idaho Extension 4-H Youth Development has led efforts in recent years to help 40,000 Idaho youth learn about personal finances and credit. Impressed with the results, Northwest Farm Credit Services has committed $280,000 for a four-year project to expand those efforts in Idaho to improve youth financial literacy and economic prospects for rural communities, and to share the program with four more states in the northwest.

Workforce preparation for Idaho youth has also received increased emphasis during the recent past. Efforts to help children succeed in science, technology, engineering, and math careers (STEM) have included more than 300 events specific to STEM skills during the past year. These events reached 4,700 adult contacts to support adult leadership of STEM projects and also 5,700 youth actively engaged in STEM projects. In addition to the rocketry, robotics, and science camps that are built around STEM learning, 4-H projects in areas like livestock, crops, and cooking have undergone a significant transformation to highlight the science and math skills that accompany learning for thousands of youth in traditional 4-H clubs.

Promoting Local Foods, Supporting Idaho Agriculture

Across the State, UI Extension Educators have partnered with local schools, with the Idaho State Department of Agriculture, the Idaho Department of Education, and with community food advocates to bring University of Idaho resources to the local food table. Extension faculty members have been engaged in a wide variety of activities to support these community efforts. Some Extension educators have worked with local organizations to conduct food-shed assessments and feasibility studies for sourcing local food products. Numerous UI Extension faculty members have worked with community gardens, school gardens, and backyard agriculture to generate enthusiasm for locally-grown healthy foods, including supplying Master Gardener mentors to support ISDA-sponsored school gardens in 11 Idaho towns. In eastern and northern Idaho, UI Extension continues work to develop and disseminate technologies that will extend the growing season for produce farmers, including installation of high-tunnels (hoop houses) on small farms and community gardens. UI Extension also conducts field trials with short-season vegetable varieties and growing practices.

The importance of forage crops has been growing in Idaho for a decade to support both dairy and beef industries. With cash receipts exceeding $526 million in 2012, hay has become Idaho's third most valuable crop. UI Extension helps forage growers learn about new practices and technologies through the annual forage schools delivered across the state. Participants in these schools attest to the value of learning how to improve yield and quality through their irrigation, pest management, and harvesting practices. New studies with dual-purpose cover crops have proven useful for Magic Valley growers who are planting forages for fall grazing that can be turned-under as soil-building green manure the following spring. Concurrent work using composted dairy manure to fertilize organic alfalfa and barley crops is showing that composted manure is economically competitive with commercial fertilizers and can have a significant impact on waste management challenges faced by dairies.

A Healthier Idaho

UI Extension's *Eat Smart Idaho* **p**rogram provides nutrition education and food purchasing skills for low-income Idahoans, whose numbers have increased 40 percent in the past five years. Funded by two federal grants, *Eat Smart Idaho* classes were taught by 28 UI Extension Nutrition Advisors in 39 Idaho counties in 2013. These classes had a combined attendance of more than 43,000. Another

250 nutrition education programs were delivered without regard for family income and reached nearly 12,000 more learners in Idaho.

More than 800 classes were held during 2013 to help Idahoans become more physically fit. These classes focus on achieving and maintaining healthy weight and on strength and agility training to help aging Idahoans maintain their independence. In all, these physical activity classes were delivered for nearly 15,000 learners.

The UI Extension 4-H program was one of only five states to receive a grant from the National 4-H Council to establish the 4-H Food Smart Families program. This program delivers concentrated education to youth (2,500 in 2014) about food and exercise and also trains teen advocates to provide leadership for healthy living in their communities.

2014 Extension Topic Teams

Topic Team	Leaders
Cereals	J Marshall/R Findley
Community Development	H Shaklee/K Tifft
Commercial and Consumer Horticulture	S Love/A Agenbrode
Dairy	R Norell/S Jensen
Family Economics	L Erickson/L Hansen
Farm and Ranch Management	P Patterson/S Harrison
Food Safety	S McCurdy/L Sant
Forest Management	C Schnepf/R Brooks
Health and Nutrition	M Raidl/M Spencer
Land and Livestock	B Glaze/C Cheyney
Potatoes	P Nolte
Small Acreages and Emerging Specialty Crops	C Williams/A Agenbrode
Soil, Water, Waste and Air Management	A Moore
Sugarbeets & Minor Crops	D Morishita
4-H Youth Development	C Stark/B Luckey

Research Projects, September 2014

Letter Designation According to the Following Key

Project Types:
H=Hatch Funds
R=Multistate Hatch Funds
Multistate Research Projects (in parenthesis)
SG=Special Research Grants
CG=Competitive Grants (NIFA)
OG=Other Competitive Grants (NIFA)

Dept. Abbreviations:
AEE - Agricultural and Extension Education
AERS - Agricultural Economics and Rural Sociology
AVS - Animal and Veterinary Science
BAE - Biological and Agricultural Engineering
FCS - Family and Consumer Sciences
SFS - School of Food Science
PSES - Plant, Soil, and Entomological Sciences

[ ] - denotes non-technical title for the research project, if appropriate.

Projects are shown by Budget Number, Station Number, Title, Department, Principal Investigator(s), Initiation and Termination Date

Hatch Projects

Budget Number	Project Number	Title
BE-H411	H-1411	*Agricultural Education Teacher Self-Efficacy: Development Through Teacher Preparation and Novice Teaching*. (AEE). K. Wolf. July 1, 2010 to June 30, 2015.
BJ-H412	H-1412	*Advances in Dose-Response Estimation and Calibration*. (PSES). B. Shafii. July 1, 2010 to June 30, 2015.
BJ-H413	H-1413	*Screening for Disease Resistance to Foot Rot Fungi in Wheat and Barley*. (PSES). J. Marshall. July 1, 2010 to June 30, 2015.
BJ-H415	H-1415	*Development and Evaluation of Community-Based Strength Training Programs*. (FCS). M. Raidl. July 1, 2010 to June 30, 2015.
BJ-H416	H-1416	*Selection and Management of New Potato Lines Adapted to Southwest Idaho*. (PSES). M. Thornton. July 1, 2010 to June 30, 2015.
BJ-H417	H-1417	*Development and Application of Molecular Markers Related to the Improvement of Potatoes and Wheat*. (PSES). J. Kuhl. July 1, 2010 to June 30, 2015.
BJ-H418	H-1418	*Propagation, Production and Transplanting Practices for Native Plants with Landscape Potential*. (PSES). R. Tripepi. July 1, 2010 to June 30, 2015.
BJ-H420	H-1420	*A Holistic Approach to Managing Important Potato Diseases in Idaho*. (PSES). P. Wharton. July 1, 2010 to June 30, 2015.
BG-H422	H-1422	*Enhancing Milk Fat with Monounsaturated and Polyunsaturated Fatty Acids for Improved Nutritional and Market Value*. (AVS). M. McGuire. July 1, 2010 to June 30, 2015.
BH-H423	H-1423	*Molecular Analysis of Pollen Germination Control*. (PSES). Z. Hong. July 1, 2010 to June 30, 2015.
BF-H425	H-1425	*Technology for Advanced Biofuel*. (BAE). D. Shrestha. July 1, 2010 to June 30, 2015.

BH-H429 H-1429 *Uncovering the Genetic Foundation of Autophagic Cell Death in Yeast in Order to Retard Premature Senescence in Plants*. (MMBB). A. Caplan. July 1, 2010 to June 30, 2015.

BL-H430 H-1430 *Development of Community-Based Intervention Programs to Reduce the Metabolic Syndrome Risk Factors*. (FCS). S. Safaii-Fabiano. July 1, 2010 to June 30, 2015.

BJ-H446 H-1446 *Plant Virus-Host Interactions, Epidemiology, and Management of Plant Virus Diseases in Idaho Crops*. (PSES). A. Karasev. July 1, 2011 to June 30, 2016.

BJ-H447 H-1447 *Risk Evaluation for Agricultural Biotechnology with Respect to Wildland Habitats*. (PSES). G. Knudsen. July 1, 2011 to June 30, 2016.

BJ-H448 H-1448 *Commercialization of Native Adapted Plant Varieties for Use in Sustainable Southern Idaho Landscapes*. (PSES). S. Love. July 1, 2011 to June 30, 2016.

BJ-H449 H-1449 *Digital Modeling of Podzolization in Volcanic Ash Mantles Along Environmental Gradients in the Inland Northwest Region*. (PSES). P. McDaniel. July 1, 2011 to June 30, 2016.

BJ-H450 H-1450 *Plant Disease Identification and Management in Southwest Idaho*. (PSES). K. Mohan. July 1, 2011 to June 30, 2016.

BJ-H451 H-1451 *Biopesticide Co-Products from Brassicaceae Seed Meals*. (PSES). M. Morra. July 1, 2011 to June 30, 2016.

BL-H453 H-1453 *Factors Influencing Adult Feeding Practices Used with Young Children*. (FCS). S. Ramsay. July 1, 2011 to June 30, 2016.

BJ-H454 H-1454 *Comparing Sugarbeet Productivity, Weed Incidence and Management in Three Tillage Systems*. (PSES). D. Morishita. July 1, 2012 to June 30, 2017.

BD-H455 H-1455 *Factors Affecting the Economic Viability and Sustainability of Rangelands*. (AERS). N. Rimbey. July 1, 2011 to June 30, 2016.

BG-H456 H-1456 *Strategies to Improve Fertility and Reproductive Efficiency of Dairy and Beef Cattle Using Modified Timed Artificial Insemination Breeding Protocols*. (AVS). A. Ahmadzadeh. July 1, 2011 to June 30, 2016.

BK-H457 H-1457 *New Approaches for Sustainable Water and Energy Processes, and Teaching Sustainability*. (SFS). G. Moller. July 1, 2011 to June 30, 2016.

BF-H460 H-1460 *Producing and Integrating Time Series of Gridded Evapotranspiration for Irrigation Management, Hydrology and Remote Sensing Applications*. (BAE). R. Allen. July 1, 2011 to June 30, 2016.

BJ-H461 H-1461 *Rattail Fescue Management in Winter Wheat*. (PSES). D. Thill. July 1, 2012 to June 30, 2017.

BJ-H462 H-1462 *Earthworms and Carbon Cycling in Agricultural and Rangeland Soils of the Inland Pacific Northwest*. (PSES). J. Johnson-Maynard. July 1, 2012 to June 30, 2017.

BJ-H463 H-1463 *Potato Variety Tolerance to Herbicides, Weed Interaction with Insects and Virus, and Trap Crop Management in Potato Cropping*. (PSES). P. Hutchinson. July 1, 2012 to June 30, 2017.

BJ-H464 H-1464 *Using Both Human Dimension and Biological Indicators to Measure both Short and Medium Term Impacts on the Sustainability of Water Quality and Water Quantity in the PNW*. (PSES). B. Mahler, et al. July 1, 2012 to June 30, 2017.

BJ-H465 H-1465 *Discovery of Ecological Niche for Anthriscus caucalis, Modeling Dispersal Within the Ecological Niche and Implications for Management*. (PSES). T. Prather. July 1, 2012 to June 30, 2017.

BJ-H466 H-1466 *Development and Sustainable Production of New Potato Varieties for Idaho*. (PSES). J. Stark, et al. July 1, 2012 to June 30, 2017.

BK-H467 H-1467 *Factors that Influence Cattle Colonization With E. coli O157:H7*. (SFS). C. Bohach. July 1, 2012 to June 30, 2017.

BD-H468 H-1468 *Economic Evaluation and Modeling of Agricultural Production and Responses to External Factors*. (AERS). C. McIntosh. July 1, 2012 to June 30, 2017.

BF-H469 H-1469 *Novel Bioprocessing of Microalgae for Environmentally Enhanced Algal Biodiesel Production*. (BAE). B. He. July 1, 2012 to June 30, 2017.

BK-H472 H-1472 *Inhibition of Listeria Monocytogenes on Cold-Smoked Salmon by Edible Antimicrobial Packaging*. (SFS). G. Unlu. July 1, 2012 to June 30, 2017.

BD-H474 H-1474 *Rural Community Resilience and Climate Adaptation in Western Agricultural Landscapes*. (AERS). J.D. Wulfhorst. July 1, 2012 to June 30, 2017.

BD-H475 H-1475 *Assessing PNW Price Behavior to Enhance Risk Management for Agricultural Producers and Handlers of Grain*. (AERS). L. Makus. July 1, 2012 to June 30, 2017.

BF-H476 H-1476 *Remote Sensing Spatial Tools and Modeling to Characterize the Impact of Climate Change on Snowmelt Runoff and Irrigation Water Supply*. (BAE). R. Qualls. July 1, 2012 to June 30, 2017.

BK-H478 H-1478 *Novel Sterilization Method for Food, Clinical and Pharmaceutical Applications*. (SFS). A. Paszczynski. September 1, 2012 to June 30, 2017.

BF-H479 H-1479 *Biotechnology Optimization for Biofuels Production*. (BAE). T. Hess. July 1, 2013 to June 30, 2018.

BJ-H480 H-1480 *The Impact of Modern Orchard Architectures and Rootstocks on Production, Quality, and Mineral Nutrition of Fuji Apple*. E. Fallahi. (PSES). July 1, 2013 to June 30, 2018.

BJ-H481 H-1481 *Interdisciplinary Research on Climate Change and PNW Agriculture*. (PSES). S. Eigenbrode. July 1, 2013 to June 30, 2017.

BJ-H482 H-1482 *Impacts of Long-Term Dairy Manure Applications to Irrigated Croplands on Crop Production and Soil Quality*. (PSES). A. Moore. July 1, 2013 to June 30, 2018.

BJ-H483 H-1483 *Marker-Assisted Breeding for Fusarium Head Blight Resistance in Spring Wheat*. (PSES). J. Chen. July 1, 2013 to June 30, 2018.

BE-H486 H-1486 *Motivators, Inhibitors, and Institutional Characteristics That Influence Faculty Participation in Online and Distance Education*. (AEE). E. Anderson. September 19, 2013 to June 30, 2018.

BD-H490 H-1490 *Factors that Contribute to Rural Community Economic Resilience*. (AERS). P. Lewin. July 1, 2013 to June 30, 2018.

BE-H491 H-1491 *Agricultural Education Teacher Behaviors: Inquiry into Behaviors that Affect Teaching and Learning*. (AEE). J. Falk. July 1, 2014 to June 30, 2019.

BG-H492 H-1492 *Heat Detection Accuracy of AI Technicians Working With Dairy Heifers*. (AVS). J. Dalton. July 1, 2013 to June 30, 2018.

BG-H493 H-1493 *Use of Sexed Semen to Alter Gender Ratios and Enhance Marketing Opportunities in Commercial Beef Herds*. (AVS). J. Hall. July 1, 2013 to June 30, 2018.

BJ-H496 H-1496 *Effects of Conservation Tillage on Insect Pests and Their Natural Enemies in Sugar Beet in Idaho*. (PSES). E. Wenninger. August 8, 2013 to June 30, 2018.

BD-H497 H-1497 *Mitigating Disruptions in Agricultural Production and Natural Resource Integrity/ Stability*. (AERS). L. Elbakidze. July 1, 2013 to June 30, 2018.

BJ-H500 H-1500 *Interactive Disturbances in Natural Systems: Impacts on Plant and Insect Community Structure and Function*. (PSES). S. Cook. July 1, 2014 to June 30, 2019.

BJ-H501 H-1501 *Management of Arthropods in Specialty Crops*. (PSES). J. Barbour. July 1, 2014 to June 30, 2019.

BJ-H502 H-1502 *Potato Sprout Control Options for Long-term Storage and Marketing*. (PSES). N. Olsen. July 1, 2014 to June 30, 2019.

BJ-H503 H-1503 *Molecular Mechanisms of Disease Resistance in Tomato*. (PSES). F. Xiao. July 1, 2014 to June 30, 2019.

BJ-H504 H-1504 *Breeding for Slow Darkening Pinto Common Bean (Phaseolus vulgaris L.) Resistant to White Mold*. (PSES). S. Singh. July 1, 2014 to June 30, 2019.

BJ-H505 H-1505 *Seed Potato Quality Improvement*. (PSES). P. Nolte. July 1, 2014 to June 30, 2019.

BJ-H506 H-1506 *Steps Toward Sustainable Management in Cereal and Potato Crops in Idaho*. (PSES). A. Rashed. July 1, 2014 to June 30, 2017.

BF-H507 H-1507 *Advancing Drought Monitoring to Promote Climate-Resilient Water Management in The West*. (BAE). J. Ryu. July 1, 2014 to June 30, 2019.

BD-H508 H-1508 *Exchange Rate and Agricultural Commodity Trade Between China, the United States, and Competitors*. (AERS). S. Devadoss. July 1, 2014 to June 30, 2019.

BJ-H509 H-1509 *Improving Cereal-Based Cropping Systems Through Soil Health and Agronomic Inputs*. (PSES). K. Schroeder. July 1, 2014 to June 30, 2019.

BJ-H510 H-1510 *Developing Superior Oilseed and Mustard Cultivars from Brassicaceae Species*. (PSES). J. Brown. July 1, 2014 to June 30, 2019.

BJ-H511 H-1511 *Biology and Management of the Hessian Fly in Northern Idaho*. (PSES). N. Bosque-Perez. July 1, 2014 to June 30, 2019.

BJ-H512 H-1512 *Alfalfa Yield and Quality Estimation Using Environmental Variables, and Improved Forage Quality*. (PSES). G. Shewmaker. July 1, 2014 to June 30, 2019.

BD-H513	H-1513	*Benefits and Costs of Food Quality Standards When Food Quality is Not Known at Purchase*. (AERS). J. Winfree. July 1, 2014 to June 30, 2019.
BD-H518	H-1518	*Identifying, Implementing and Evaluating Emerging Approaches to Rural Community & Economic Development*. (AERS). L. Higgins. July 1, 2014 to June 30, 2019.

Multistate Projects - Multistate Research Projects address complex, multidisciplinary research problems that are of regional and/or national importance and involve the collaboration of scientists between two or more states.

BA-R529	R-529 (W-106)	*Regional Research Coordination, Western Region (Administration)*. D. Thill. August, 1965 - Indefinite Termination.
BD-R400	R-1400 (W-2190)	*Multistate: Water Policy and Management Challenges in the West*. (AERS). R.G. Taylor. October 1, 2009 to September 30, 2014.
BG-R402	R-1402 (W-2128)	*Multistate: Microirrigation for Sustainable Water Use*. (BAE). H. Neibling. October 1, 2009 to September 30, 2014.
BJ-R419	R-1419 (W-2188)	*Multistate: Characterizing Mass and Energy Transport at Different Vadose Zone Scales*. (PSES). R. Heinse. July 1, 2010 to September 30, 2014.
BG-R426	R-1426 (NC-1184)	*Multistate: Molecular Mechanisms Regulating Skeletal Muscle Growth and Differentiation* (AVS). G. Murdoch. July 1, 2010 to September 30, 2015.
BS-R432	R-1432 (IR-4)	*Idaho Agricultural Program to Clear Pest Control Agents for Minor Uses*. (District II, PSES). R. Hirnyck. October 1, 2010 to September 30, 2015.
BJ-R433	R-1433 (NC-1187)	*Multistate: The Chemical and Physical Nature of Particulate Matter Affecting Air, Water and Soil Quality*. D. Strawn. October 1, 2010 to September 30, 2015.
NB	R-1444 (W-2150)	*Multistate: Breeding Common Bean (Phaseolus vulgaris L.) for Resistance to Abiotic and Biotic Stresses, Sustainable Production, and Enhanced Nutritional Value*. (PSES). S. Singh. October 1, 2010 to September 30, 2015.
BJ-R473	R-1473 (W-6)	*Multistate: Plant Genetic Resource Management, Preservation, Characterization and Utilization*. (PSES). J. Kuhl. May 1, 2012 to September 30, 2014.
BG-R477	R-1477 (W-2112)	*Multistate: Reproductive Performance in Domestic Ruminants*. (AVS). T. Davis. October 1, 2011 to September 30, 2016.
BJ-R484	R-1484 (W-3186)	*Multistate: Variability, Adaptation, and Management of Nematodes Impacting Crop Production and Trade*. (PSES). S. Hafez. October 1, 2013 to September 30, 2018.
BF-R485	R-1485 (S-3082)	*Animal Production Systems: Synthesis of Methods to Determine Triple Bottom Line Sustainability from Findings of Reductionist Research*. (BAE). L. Chen. October 1, 2013 to September 2018.
BL-R487	R-1487 (W-2192)	*Improving Safety and Health of Wildland Firefighters Through Personal Protection Clothing*. (FCS). S. Meyer. October 1, 2012 to September 30, 2017.
BK-R489	R-1489 (NC-213)	*Marketing and Delivery of Quality Grains and BioProcess Coproducts*. (SFS). D. Ryu. November 14, 2013 to September 30, 2018.
BJ-R494	R-1495 (W-3185)	*Multistate: Biological Control in Pest Management Systems of Plants*. (PSES). M. Schwarzlaender. October 1, 2012 to September 30, 2017.

BD-R498	R-1498 (NE-1049)	*Multistate: Community Health and Resilience*. (AERS). P. Watson. October 1, 2013 to September 30, 2017.
BG-R499	R-1499 (NE-2042)	*Multistate: Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises*. (AVS). M. Chahine. October 1, 2013 to September 30, 2018.
Pending	R-1514	*Multistate: Soil, Water, and Environmental Physics Across Scales*. (PSES). R. Heinse. October 1, 2014 to September 30, 2019.
BD-R515	R-1515	*Multistate: Management and Policy Challenges in a Water-Scarce World*. (AERS). G. Taylor. October 1, 2014 to September 30, 2019.
Pending	R-1516	*Multistate: Scaling Microirrigation Technologies to Address the Global Water Challenge*. (BAE). H. Neibling. October 1, 2014 to September 30, 2019.
Pending	R-1517	*Multistate: Mastitis Resistance to Enhance Dairy Food Safety*. (AVS). P. Rezamand. October 1, 2012 to September 30, 2017.

USDA Special Research Grants/Competitive Grants (National Research Initiative, Initiative for Future Agriculture and Food Systems, Integrated Research, Education and Extension).

BD-K275	CG-0904	*Trade in Intermediate and Final Products: Policy Impacts in Apple and Juice Markets*. (AERS). S. Devadoss. December 1, 2009 to November 30, 2014. (Grant # 201-65400-20431).
BJ-KH92…	CG-1002	*Multiple Enhanced-value Co-products from Regionally Important Oilseed Feedstocks*. (PSES, BAE, FS). M. Morra and B. He. July 1, 2011 to June 30, 2015. (Grant # 2011-67009-20094).
BJ-KL03…	CG-1003	*Regional Approaches to Climate Change for Pacific Northwest Agriculture*. (PSES, AERS, et al.). S. Eigenbrode, et al. February 15, 2011 to February 14, 2015. (Grant #2 011-68002-30191).
BF-K939	CG-1201	*Reducing Greenhouse Gas Emissions Through Anaerobic Digestion of Wastes from Regionally Important Agriculture*. (BAE). L. Chen. August 15, 2012 to August 14, 2015. (Grant #2012-69002-19869)
BA-K307	OG-1202	*Canola Research - Pacific Northwest Region (FY2012)*. D. Thill. (IAES) September 1, 2012 to August 31, 2015. (Grant #2012-38624-20170)
BK-K123	CG-1204	*Food Safety Education and Behavioral Changes Among Deaf and Hard-of-Hearing Population: A Model Study*. D. Ryu. (SFS). September 1, 2013 to August 31, 2016. (Grant # 2011-67005-30018).
BK-K290	CG-1204	*Risk Assessment and Intervention Strategies for the Emerging Food Safety Threat of Ochratoxin in the United States*. D. Ryu. (SFS). December 14, 2012 to February 29, 2016. (Grant # 2011-67005-20676).
BJ-KM61-64 BD-K064	CG-1301	*Trap Crop and Biological Control Agents to Replace Methyl Bromide for Eradication of Globodera pallida*. L.M. Dandurand. (PSES). September 1, 2013 to August 31, 2016. (Grant # 2013-51102-21015).
BA-K308	OG-1303	*Canola Research Program Pacific Northwest*. D. Thill. (IAES). July 1, 2013 to August 31, 2015. (Grant #2013-38624-21400).

BJ-KM58	CG-1304	*Seed Grant to Determine Molecular Speciation of Phosphorus in Soils from A Long-Term Dairy Manure Amendment Trial in Idaho*. D. Strawn. (PSES). October 1, 2013 to September 30, 2015. Grant #2013-67020-21352.
BJ-KM81	CG-1305	*Chemicals of Emerging Concern in the Eastern Snake River Plain of Idaho: A Threat to Irrigated Agriculture, Dairy, and Aquaculture?* M. Morra, et al. (PSES). September 1, 2013 to August 31, 2016. Grant #2013-67019-21375.
BJ-KH76	CG-1306	*Coordination of Extension IPM Programs for Communities, Specialty Crops and Pesticide Applications in Idaho*. E. Bechinski. (PSES). September 1, 2013 to August 31, 2015. (Grant #2013-41534-21508).
TBD	CG-1401	*Identification of Zebra Chip Resistant and Tolerant Potato Cultivars for the U.S*. A. Rashed. (PSES). September 1, 2014 to August 31, 2019. (Grant#2014-67014-22408).
TBD	CG-1402	*Extension Implementation Program for IPM Idaho 2014-2017*. E. Bechinski. (PSES). September 1, 2014 to August 31, 2014. (Grant #2014-70006-22497).

Grants and Contracts Awards, FY 2014

Dept	PI Name	Location	Agency	Total Award
4-H Prog	Ewers, Timothy G.	Moscow	National 4-H Council	$40,992
4-H Prog	Gerber, Linda J.	Boise	US Department of the Army	$71,350
4-H Prog	Gerber, Linda J.	Boise	Kansas State University	$9,958
4-H Prog	Gerber, Linda J.	Boise	Kansas State University	$23,000
4-H Prog	Toomey, M. M.	Boise	Smith-Lever L Of C	$27,334
4-H Prog	Toomey, M. M.	Boise	Smith-Lever L Of C	$27,334
4-H Prog	Toomey, M. M.	Boise	Smith-Lever L Of C	$37,997
4-H Prog	Toomey, M. M.	Boise	Smith-Lever L Of C	$27,334
4-H Prog	Toomey, M. M.	Boise	ConAgra via National 4-H Council	$150,000
4-H Prog	Toomey, M. M.	Boise	National Institute of Food & Agriculture/USDA	$41,857
4-H Prog	Toomey, M. M.	Boise	National Institute of Food & Agriculture/USDA	$34,381
4-H Prog	Toomey, M. M.	Boise	National Institute of Food & Agriculture/USDA	$34,381
4-H Prog	Toomey, M. M.	Boise	National Institute of Food & Agriculture/USDA	$34,381
			Total 4-H Program	**$560,299**
AERS	Bernacchi, Leigh A.	Moscow	Oregon State University	$10,000
AERS	Elbakidze, Levan	Moscow	National Science Foundation	$4,320
AERS	Guenthner, Joseph F.	Moscow	University of Wisconsin	$28,889
AERS	Johnson, Aaron J.	Moscow	National Institute of Food & Agriculture/USDA	$157,327
AERS	Lewin, Paul A.	Moscow	National Institute of Food & Agriculture/USDA	$28,421
AERS	Patterson, Paul E.	Idaho Falls	National Institute of Food & Agriculture/USDA	$15,945
AERS	Patterson, Paul E.	Idaho Falls	Idaho Potato Commission	$6,520
AERS	Patterson, Paul E.	Idaho Falls	Idaho Potato Commission	$1,150
AERS	Watson, Philip	Moscow	National Science Foundation	$4,320
AERS	Watson, Philip	Moscow	University of Nevada at Reno	$190,501
AERS	Wulfhorst, J.D.	Moscow	Owyhee County Board of Commissioners	$26,855
AERS	Wulfhorst, J.D.	Moscow	National Science Foundation	$4,320
AERS	Wulfhorst, J.D.	Moscow	USDI Bureau Of Land Management	$16,481
AERS	Wulfhorst, J.D.	Moscow	Office of Species Conservation	$12,500
			Total AERS	**$507,549**
AVS	Ahmadzadeh, Amin	Moscow	Idaho Dairymen's Association, Inc.	$25,000
AVS	Chahine, Mireille	Twin Falls	Idaho Dairymen's Association, Inc.	$5,000
AVS	Dalton, Joseph C.	Caldwell	Washington State University	$81,943
AVS	Dalton, Joseph C.	Caldwell	Idaho Dairymen's Association, Inc.	$5,000
AVS	Doumit, Matthew E.	Moscow	Idaho Beef Council	$34,462
AVS	Doumit, Matthew E.	Moscow	Idaho Beef Council	$7,757
AVS	Doumit, Matthew E.	Moscow	Idaho Beef Council	$26,951

AVS	Murdoch, Gordon K.	Moscow	Idaho Beef Council	$69,212
AVS	Murdoch, Gordon K.	Moscow	University of Washington	$17,480
AVS	Norell, Richard J.	Idaho Falls	Idaho Dairymen's Association, Inc.	$5,000
			Total AVS	**$277,805**
BAE	Allen, Richard G.	Kimberly	Twin Falls Canal Co.	$32,866
BAE	Allen, Richard G.	Kimberly	US Geological Survey	$47,399
BAE	Allen, Richard G.	Kimberly	Idaho Dept. of Water Resources	$104,040
BAE	Allen, Richard G.	Kimberly	NASA Goddard Space Flight Center	$94,302
BAE	Allen, Richard G.	Kimberley	US Geological Survey	$199,618
BAE	Brooks, Erin S.	Moscow	USDA Forest Service	$39,000
BAE	Brooks, Erin S.	Moscow	USDA Forest Service	$1,500
BAE	Brooks, Erin S.	Moscow	Washington State University	$111,994
BAE	Hess, Thomas F.	Moscow	Orphans to Ambassadors	$2,000
BAE	Neibling, William H.	Kimberly	Idaho Sugarbeet Industry	$11,870
BAE	Neibling, William H.	Kimberly	Idaho Sugarbeet Industry	$9,680
BAE	Neibling, William H.	Kimberly	Washington State University	$3,152
BAE	Neibling, William H.	Kimberly	Anheuser-Busch Companies, Inc.	$29,994
BAE	Ryu, Jae H.	Boise	Konkuk National University	$159
BAE	Ryu, Jae H.	Boise	Konkuk National University	$8,912
BAE	Shrestha, Dev	Moscow	Boise State University	$34,506
BAE	Shrestha, Dev	Moscow	Boise State University	$35,471
			Total BAE	**$766,463**
CALS	Barkley, Yvonne C.	Moscow	Smith-Lever L Of C	$50,324
CALS	Haggerty, Robert J.	Moscow	USDA Foreign Agricultural Service	$39,988
CALS	McCawley, Paul F.	Moscow	Idaho Dept. of Health & Welfare	$8,373
CALS	McCawley, Paul F.	Moscow	Idaho Dept. of Health & Welfare	$54,063
CALS	McCawley, Paul F.	Moscow	Idaho Dept. of Health & Welfare	$121,906
CALS	McCawley, Paul F.	Moscow	Idaho Dept. of Health & Welfare	$106,287
CALS	McCawley, Paul F.	Moscow	Idaho Dept. of Health & Welfare	$47,136
CALS	Saul, Darin	Moscow	Community Council of Idaho Inc	$14,939
CALS	Thill, Donald C.	Moscow	USDA Agricultural Research Ser	$41,117
CALS	Thill, Donald C.	Moscow	USDA Agricultural Research Ser	$50,050
CALS	Thill, Donald C.	Moscow	USDA Agricultural Research Ser	$40,000
CALS	Thill, Donald C.	Moscow	National Institute of Food & Agriculture/USDA	$132,058
			Total CALS	**$706,241**
Eastern Dist	Gunn, Danielle	Fort Hall	National Institute of Food & Agriculture/USDA	$84,554
Eastern Dist	Liddil, Audrey C.	Bannock Cty	Idaho Dept. of Health & Welfare	$8,820
Eastern Dist	Patterson, Paul E.	Idaho Falls	Idaho Wheat Commission	$1,035
			Total Eastern District	**$94,409**
Northern Dist	Jensen, Jennifer L.	Boundary Cty	Idaho Department of Agriculture	$3,000
Northern Dist	Johnson, Shelly L.	Kootenai Cty	Idaho Dept. of Health & Welfare	$4,083

Northern Dist	Johnson, Shelly L.	Kootenai Cty	Idaho Dept. of Health & Welfare	$113,509
Northern Dist	Johnson, Shelly L.	Kootenai Cty	Idaho Dept. of Health & Welfare	$50,339
Northern Dist	Mayes, Iris A.	Coeur d'Alene	National Institute of Food & Agriculture/USDA	$73,500
Northern Dist	Schnepf, Christopher C.	Kootenai Cty	Idaho Department of Lands	$11,000
Northern Dist	Schnepf, Christopher C.	Kootenai Cty	Idaho Department of Lands	$975
Northern Dist	Schnepf, Christopher C.	Kootenai Cty	Idaho Department of Lands	$1,500
Northern Dist	Schnepf, Christopher C.	Kootenai Cty	Idaho Department of Lands	$305
Northern Dist	Steele, Valdasue	Nez Perce	National Institute of Food & Agriculture/USDA	$74,000
Northern Dist	Williams, Cinda E.	Moscow	National Institute of Food & Agriculture/USDA	$144,978
Northern Dist	Williams, Cinda E.	Moscow	Oregon State University	$1,500
Northern Dist	Williams, Cinda E.	Moscow	Washington State University	$43,858
Northern Dist	Williams, Cinda E.	Moscow	Washington State University	$1,620
Northern Dist	Williams, Cinda E.	Moscow	Washington State University	$675
Northern Dist	Williams, Cinda E.	Moscow	University of Wyoming	$17,998
Northern Dist	Wilson, Jim B.	Kootenai Cty	Kootenai County	$4,200
Northern Dist	Wilson, Jim B.	Kootenai Cty	Kootenai County	$135,800
			Total Northern District	**$682,841**
Southern Dist	Byington, Charlene M.	Bannock Cty	Smith-Lever L Of C	$6,656
Southern Dist	Falen, Christine L.	Twin Falls Cty	Twin Falls Soil & Water Conservation District	$3,500
Southern Dist	Hines, Steven L.	Jerome Cty	Idaho Bean Commission	$13,397
Southern Dist	Hirnyck, Ronda E.	Boise	National Institute of Food & Agriculture/USDA	$1,950
Southern Dist	Hirnyck, Ronda E.	Boise	National Association of State Dept. of Ag Reseach Foundation	$10,000
Southern Dist	Hirnyck, Ronda E.	Boise	CropLife Foundation	$25,000
Southern Dist	Hirnyck, Ronda E.	Boise	Univ of California Davis	$73,500
Southern Dist	Hunter, Lauren A.	Blaine Cty	Utah State University	$8,475

Southern Dist	Hunter, Lauren A.	Blaine Cty	Blaine County Support	$89,502
Southern Dist	Hunter, Lauren A.	Blaine Cty	Idaho Barley Commission	$1,720
Southern Dist	Lanting, Rhea K.	Twin Falls Cty	Idaho Dept. of Health & Welfare	$75,591
Southern Dist	Lanting, Rhea K.	Twin Falls Cty	Idaho Dept. of Health & Welfare	$5,301
Southern Dist	Lanting, Rhea K.	Twin Falls Cty	Idaho Dept. of Health & Welfare	$33,523
Southern Dist	Lockard, Marsha A.	Ada County	Ada County Extension 4-H Office	$8,430
Southern Dist	Lockard, Marsha A.	Ada County	Ada County Extension 4-H Office	$144,711
Southern Dist	Lockard, Marsha A.	Ada County	Ada County Extension 4-H Office	$5,500
Southern Dist	Lockard, Marsha A.	Ada County	Ada County Extension 4-H Office	$5,500
Southern Dist	Lockard, Marsha A.	Ada County	Ada County Extension 4-H Office	$41,859
Southern Dist	Lockard, Marsha A.	Ada County	Ada County Extension 4-H Office	$75,000
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Alfalfa & Clover Seed Commission	$750
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Alfalfa & Clover Seed Commission	$500
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Sugarbeet Industry	$750
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Potato Commission	$638
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Potato Commission	$112
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Sugarbeet Industry	$750
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Potato Commission	$425
Southern Dist	Neufeld, Jerold D.	Canyon Cty	Idaho Potato Commission	$75
Southern Dist	Peutz, Joey D.	Payette Cty	Idaho Dept. of Health & Welfare	$157,706
Southern Dist	Peutz, Joey D.	Payette Cty	Idaho Dept. of Health & Welfare	$3,990
Southern Dist	Peutz, Joey D.	Payette Cty	Idaho Dept. of Health & Welfare	$69,939
			Total Southern District	**$864,751**
FCS	Deringer, Nancy	Moscow	Pennsylvania State University	$23,666
FCS	Raidl, Martha A.	Moscow	Oregon State University	$25,000
FCS	Ramsay, Samantha A.	Moscow	University of Nevada Las Vegas Board of Regents	$54,461

			Total FCS	**$103,127**
SFS	Bohach, Carolyn H.	Moscow	Idaho Department of Commerce	$78,076
SFS	Bohach, Carolyn H.	Moscow	Agri-Beef, Co.	$30,000
SFS	Bohach, Carolyn H.	Moscow	Washington State University	$51,036
SFS	Burbank, Malcolm B.	Moscow	Idaho Department of Commerce	$114,864
SFS	Paszczynski, Andrzej	Moscow	Jet Propulsion Laboratories	$30,000
SFS	Ryu, Dojin	Moscow	National Institute of Food & Agriculture/USDA	$424,930
			Total School of Food Science	**$728,906**
PSES	Barbour, James	Parma	University of California, Davis	$16,586
PSES	Barbour, James	Parma	Hop Research Council	$10,587
PSES	Barbour, James	Parma	Mint Industry Research Council	$26,959
PSES	Bechinski, Edward J.	Moscow	National Institute of Food & Agriculture/USDA	$91,050
PSES	Bosque-Perez, Nilsa A.	Moscow	National Science Foundation	$62,159
PSES	Bosque-Perez, Nilsa A.	Moscow	National Science Foundation	$539,428
PSES	Bosque-Perez, Nilsa A.	Moscow	Idaho Wheat Commission	$40,191
PSES	Bosque-Perez, Nilsa A.	Moscow	Washington State University	$15,750
PSES	Bosque-Perez, Nilsa A.	Moscow	National Science Foundation	$4,320
PSES	Bosque-Perez, Nilsa A.	Moscow	National Science Foundation	$6,000
PSES	Bosque-Perez, Nilsa A.	Moscow	National Science Foundation	$6,000
PSES	Brown, Bradford D.	Parma	Idaho Wheat Commission	$4,571
PSES	Brown, Jack	Moscow	National Institute of Food & Agriculture/USDA	$26,878
PSES	Brown, Jack	Moscow	National Institute of Food & Agriculture/USDA	$16,710
PSES	Brown, Jack	Moscow	Idaho Wheat Commission	$9,800
PSES	Brown, Jack	Moscow	Idaho Wheat Commission	$165,207
PSES	Caplan, Allan	Moscow	National Institute of Food & Agriculture/USDA	$21,956
PSES	Chen, Jianli	Aberdeen	Univ of California Davis	$99,214
PSES	Chen, Jianli	Aberdeen	USDA Agricultural Research Ser	$10,000
PSES	Chen, Jianli	Aberdeen	USDA Agricultural Research Ser	$52,524
PSES	Chen, Jianli	Aberdeen	Idaho Wheat Commission	$240,665
PSES	Chen, Jianli	Aberdeen	USDA Agricultural Research Ser	$14,591
PSES	Chen, Jianli	Aberdeen	Idaho Wheat Commission	$37,493
PSES	Cook, Stephen P.	Moscow	USDA Forest Service	$33,000
PSES	Cook, Stephen P.	Moscow	USDA Forest Service	$44,000
PSES	Dandurand, Louise-Marie	Moscow	National Institute of Food & Agriculture/USDA	$341,871
PSES	Dandurand, Louise-Marie	Moscow	USDA-APHIS	$98,376
PSES	Dandurand, Louise-Marie	Moscow	USDA-APHIS	$49,682
PSES	Dandurand, Louise-Marie	Moscow	USDA-APHIS	$37,500

PSES	Dandurand, Louise-Marie	Moscow	Idaho Potato Commission	$26,797
PSES	Dandurand, Louise-Marie	Moscow	Idaho Potato Commission	$4,729
PSES	Dandurand, Louise-Marie	Moscow	USDA Agricultural Research Ser	$68,545
PSES	Dandurand, Louise-Marie	Moscow	USDA-APHIS	$83,612
PSES	Dandurand, Louise-Marie	Moscow	USDA-APHIS	$37,500
PSES	Dandurand, Louise-Marie	Moscow	USDA-APHIS	$13,200
PSES	Dandurand, Louise-Marie	Moscow	Syngenta Crop Protection, Inc.	$17,323
PSES	Dandurand, Louise-Marie	Moscow	Idaho Potato Commission	$24,975
PSES	Dandurand, Louise-Marie	Moscow	Idaho Potato Commission	$6,000
PSES	Dandurand, Louise-Marie	Moscow	Idaho Potato Commission	$8,094
PSES	Dandurand, Louise-Marie	Moscow	Idaho Potato Commission	$1,425
PSES	Eigenbrode, Sanford	Moscow	National Institute of Food & Agriculture/USDA	$4,000,000
PSES	Eigenbrode, Sanford	Moscow	USA Dry Pea & Lentil Council, Inc.	$25,153
PSES	Eigenbrode, Sanford	Moscow	National Science Foundation	$4,320
PSES	Fallahi, Esmaeil	Parma	USDA Agricultural Research Ser	$35,000
PSES	Fallahi, Esmaeil	Parma	Idaho Apple Commission	$106,491
PSES	Hafez, Saad L.	Parma	Idaho Mint Commission	$10,000
PSES	Hafez, Saad L.	Parma	Mint Industry Research Council	$26,972
PSES	Hafez, Saad L.	Parma	Idaho Sugarbeet Industry	$16,000
PSES	Hafez, Saad L.	Parma	Idaho Eastern Oregon Onion Comm	$4,750
PSES	Hafez, Saad L.	Parma	Idaho Potato Commission	$6,000
PSES	Hafez, Saad L.	Parma	Idaho Potato Commission	$34,000
PSES	Heinse, Robert	Moscow	Universite Laval	$60,494
PSES	Hutchinson, Pamela J.	Aberdeen	Idaho Potato Commission	$5,000
PSES	Hutchinson, Pamela J.	Aberdeen	USDA-APHIS	$7,820
PSES	Hutchinson, Pamela J.	Aberdeen	National Institute of Food & Agriculture/USDA	$29,449
PSES	Hutchinson, Pamela J.	Aberdeen	Idaho Potato Commission	$13,600
PSES	Hutchinson, Pamela J.	Aberdeen	Idaho Potato Commission	$2,400
PSES	Hutchinson, Pamela J.	Aberdeen	Idaho Potato Commission	$4,769
PSES	Hutchinson, Pamela J.	Aberdeen	Idaho Potato Commission	$841
PSES	Johnson, James B.	Moscow	Idaho Barley Commission	$5,040
PSES	Johnson-Maynard, Jodi	Moscow	National Science Foundation	$4,320
PSES	Karasev, Alexander V.	Moscow	Idaho Department of Agriculture	$155,442

PSES	Karasev, Alexander V.	Moscow	Idaho Bean Commission	$49,185
PSES	Karasev, Alexander V.	Moscow	USDA Agricultural Research Ser	$35,000
PSES	Karasev, Alexander V.	Moscow	Idaho Sugarbeet Industry	$14,000
PSES	Karasev, Alexander V.	Moscow	USDA Agricultural Research Ser	$35,460
PSES	Karasev, Alexander V.	Moscow	Idaho Sugarbeet Industry	$34,460
PSES	Karasev, Alexander V.	Moscow	USDA Agricultural Research Ser	$73,028
PSES	Karasev, Alexander V.	Moscow	J. R. Simplot Company	$44,040
PSES	Karasev, Alexander V.	Moscow	USDA Agricultural Research Ser	$78,935
PSES	Karasev, Alexander V.	Moscow	Washington State Potato Comm	$5,500
PSES	Karasev, Alexander V.	Moscow	Idaho Potato Commission	$16,000
PSES	Karasev, Alexander V.	Moscow	Idaho Potato Commission	$7,500
PSES	Karasev, Alexander V.	Moscow	Idaho Potato Commission	$26,120
PSES	Karasev, Alexander V.	Moscow	Washington State Potato Comm	$26,120
PSES	Karasev, Alexander V.	Moscow	Idaho Bean Commission	$12,000
PSES	Karasev, Alexander V.	Moscow	Idaho Potato Commission	$20,060
PSES	Karasev, Alexander V.	Moscow	Idaho Potato Commission	$91,620
PSES	Knudsen, Guy R.	Moscow	USDA-APHIS	$5,218
PSES	Knudsen, Guy R.	Moscow	National Institute of Food & Agriculture/USDA	$27,309
PSES	Knudsen, Guy R.	Moscow	Idaho Potato Commission	$3,217
PSES	Kuhl, Joseph C.	Moscow	Idaho Potato Commission	$21,231
PSES	Kuhl, Joseph C.	Moscow	Idaho Potato Commission	$3,747
PSES	Kuhl, Joseph C.	Moscow	USDA Agricultural Research Ser	$8,000
PSES	Kuhl, Joseph C.	Moscow	USDA-APHIS	$7,820
PSES	Kuhl, Joseph C.	Moscow	Agricultural Research Fdn	$4,000
PSES	Kuhl, Joseph C.	Moscow	Idaho Potato Commission	$2,591
PSES	Kuhl, Joseph C.	Moscow	Washington State Potato Comm	$4,000
PSES	Kuhl, Joseph C.	Moscow	Idaho Potato Commission	$17,731
PSES	Kuhl, Joseph C.	Moscow	Idaho Potato Commission	$3,128
PSES	Kuhl, Joseph C.	Moscow	Idaho Potato Commission	$7,650
PSES	Kuhl, Joseph C.	Moscow	Idaho Potato Commission	$1,350
PSES	Love, Stephen L.	Aberdeen	National Institute of Food & Agriculture/USDA	$14,000
PSES	Love, Stephen L.	Aberdeen	Idaho Department of Agriculture	$12,036
PSES	Love, Stephen L.	Aberdeen	Idaho Department of Agriculture	$1,770
PSES	Love, Stephen L.	Aberdeen	Utah State University	$29,098
PSES	Love, Stephen L.	Aberdeen	Utah State University	$12,603
PSES	Marshall, Juliet M.	Aberdeen	Idaho Barley Commission	$547
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$547
PSES	Marshall, Juliet M.	Aberdeen	USDA Agricultural Research Ser	$9,007
PSES	Marshall, Juliet M.	Aberdeen	Washington State University	$4,000
PSES	Marshall, Juliet M.	Aberdeen	USDA Agricultural Research Ser	$29,183
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$18,181
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$8,362
PSES	Marshall, Juliet M.	Aberdeen	Idaho Barley Commission	$1,957

PSES	Marshall, Juliet M.	Aberdeen	Idaho Barley Commission	$1,200
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$8,746
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$4,500
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$7,000
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$850
PSES	Marshall, Juliet M.	Aberdeen	Idaho Barley Commission	$8,893
PSES	Marshall, Juliet M.	Aberdeen	Idaho Barley Commission	$3,822
PSES	Marshall, Juliet M.	Aberdeen	Idaho Wheat Commission	$7,480
PSES	Mohan, S. K.	Parma	Univ of California Davis	$16,885
PSES	Moore, Amber	Kimberly	Idaho Dairymen's Association, Inc.	$20,000
PSES	Moore, Amber	Kimberly	USDA Agricultural Research Ser	$289,622
PSES	Moore, Amber	Kimberly	Idaho Barley Commission	$15,453
PSES	Moore, Amber	Kimberly	Idaho Potato Commission	$15,300
PSES	Moore, Amber	Kimberly	Idaho Potato Commission	$2,700
PSES	Moore, Amber	Kimberly	Idaho Wheat Commission	$17,663
PSES	Morishita, Don W.	Kimberly	Idaho Sugarbeet Industry	$1,368
PSES	Morishita, Don W.	Kimberly	Idaho Sugarbeet Industry	$16,692
PSES	Morishita, Don W.	Kimberly	Idaho Department of Commerce	$46,146
PSES	Morishita, Don W.	Kimberly	Univ of California Davis	$3,000
PSES	Morishita, Don W.	Kimberly	Idaho Department of Agriculture	$13,575
PSES	Morishita, Don W.	Kimberly	Idaho Sugarbeet Industry	$3,000
PSES	Morishita, Don W.	Kimberly	Monsanto Company	$16,750
PSES	Morishita, Don W.	Kimberly	Idaho Bean Commission	$10,960
PSES	Morra, Matthew J.	Moscow	National Institute of Food & Agriculture/USDA	$142,164
PSES	Morra, Matthew J.	Moscow	USDA-APHIS	$7,820
PSES	Morra, Matthew J.	Moscow	Idaho Potato Commission	$3,217
PSES	Neher, Oliver T.	Kimberly	Idaho Sugarbeet Industry	$1,366
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$825
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$4,675
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$4,425
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$25,075
PSES	Nelson, Nora O.	Kimberly	USDA Agricultural Research Ser	$17,220
PSES	Nelson, Nora O.	Kimberly	National Potato Promotion Board	$51,250
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$12,750
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$2,250
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$7,434
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$42,126
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$10,000
PSES	Nelson, Nora O.	Kimberly	Idaho Potato Commission	$6,000
PSES	Nolte, Phillip	Idaho Falls	Idaho Potato Commission	$12,750
PSES	Nolte, Phillip	Idaho Falls	Idaho Potato Commission	$2,250
PSES	Nolte, Phillip	Idaho Falls	Idaho Potato Commission	$6,000
PSES	Nolte, Phillip	Idaho Falls	Idaho Potato Commission	$29,000

PSES	Nolte, Phillip	Idaho Falls	USDA Agricultural Research Ser	$27,715
PSES	Nolte, Phillip	Idaho Falls	Idaho Potato Commission	$7,600
PSES	O'Brien, Katherine L.	Aberdeen	Idaho Wheat Commission	$124,273
PSES	Prather, Timothy S.	Moscow	USDA Forest Service	$46,000
PSES	Prather, Timothy S.	Moscow	National Science Foundation	$4,320
PSES	Prather, Timothy S.	Moscow	USDA Forest Service	$30,000
PSES	Rashed, Arash	Aberdeen	Texas A & M University	$15,000
PSES	Rashed, Arash	Aberdeen	Texas A & M University	$7,000
PSES	Rashed, Arash	Aberdeen	Idaho Wheat Commission	$6,950
PSES	Schroeder, Kurtis L.	Moscow	USA Dry Pea & Lentil Council, Inc.	$18,338
PSES	Schroeder, Kurtis L.	Moscow	Idaho Wheat Commission	$4,500
PSES	Schroeder, Kurtis L.	Moscow	Idaho Wheat Commission	$7,000
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau of Land Management	$7,000
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau Of Land Management	$10,000
PSES	Schwarzlaender, Mark	Moscow	USDA Forest Service	$57,500
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau Of Land Management	$58,000
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau Of Land Management	$30,000
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau of Indian Affairs	$25,000
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau of Indian Affairs	$15,000
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau of Indian Affairs	$14,355
PSES	Schwarzlaender, Mark	Moscow	National Institute of Food & Agriculture/USDA	$50,000
PSES	Schwarzlaender, Mark	Moscow	USDA-APHIS	$25,000
PSES	Schwarzlaender, Mark	Moscow	USDI Bureau Of Land Management	$38,000
PSES	Shewmaker, Glenn E.	Kimberly	Utah State University	$22,312
PSES	Shewmaker, Glenn E.	Kimberly	Utah State University	$2,000
PSES	Shewmaker, Glenn E.	Kimberly	Utah State University	$300
PSES	Shewmaker, Glenn E.	Kimberly	Utah State University	$635
PSES	Shewmaker, Glenn E.	Kimberly	Utah State University	$100
PSES	Shewmaker, Glenn E.	Kimberly	Utah State University	$100
PSES	Shewmaker, Glenn E.	Kimberly	Auburn University	$26,892
PSES	Singh, Shree	Kimberly	University of Nebraska	$1,000
PSES	Stark, Jeffrey C.	Aberdeen	Washington State University	$160,000
PSES	Stark, Jeffrey C.	Aberdeen	USDA Agricultural Research Ser	$72,600
PSES	Stark, Jeffrey C.	Aberdeen	Idaho Potato Commission	$13,600
PSES	Stark, Jeffrey C.	Aberdeen	Idaho Potato Commission	$2,400
PSES	Stark, Jeffrey C.	Aberdeen	USDA Agricultural Research Ser	$26,587
PSES	Stark, Jeffrey C.	Aberdeen	USDA Agricultural Research Ser	$99,000
PSES	Strawn, Daniel G.	Moscow	National Institute of Food & Agriculture/USDA	$149,500
PSES	Thill, Donald C.	Moscow	USDA Agricultural Research Ser	$60,001
PSES	Thill, Donald C.	Moscow	Idaho Wheat Commission	$58,798
PSES	Thill, Donald C.	Moscow	Idaho Barley Commission	$7,513
PSES	Thill, Donald C.	Moscow	USA Dry Pea & Lentil Council, Inc.	$13,651
PSES	Thill, Donald C.	Moscow	USDA Agricultural Research Ser	$7,181

PSES	Thill, Donald C.	Moscow	USDA Agricultural Research Ser	$16,819
PSES	Thill, Donald C.	Moscow	USDA Agricultural Research Ser	$6,750
PSES	Thornton, Michael K.	Parma	Idaho Eastern Oregon Onion Comm	$11,284
PSES	Thornton, Michael K.	Parma	Idaho Potato Commission	$9,000
PSES	Thornton, Michael K.	Parma	Idaho Potato Commission	$16,546
PSES	Thornton, Michael K.	Parma	Idaho Potato Commission	$14,899
PSES	Thornton, Michael K.	Parma	Idaho Potato Commission	$2,629
PSES	Thornton, Michael K.	Parma	University of Wisconsin	$102,379
PSES	Thornton, Michael K.	Parma	University of Wisconsin	$32,161
PSES	Tripepi, Robert R.	Moscow	Idaho Potato Commission	$16,675
PSES	Tripepi, Robert R.	Moscow	Idaho Potato Commission	$2,947
PSES	Tripepi, Robert R.	Moscow	Idaho Department of Agriculture	$11,121
PSES	Wenninger, Erik J.	Kimberly	Idaho Sugarbeet Industry	$1,130
PSES	Wenninger, Erik J.	Kimberly	Idaho Sugarbeet Industry	$1,366
PSES	Wenninger, Erik J.	Kimberly	Idaho Sugarbeet Industry	$8,000
PSES	Wenninger, Erik J.	Kimberly	Idaho Sugarbeet Industry	$13,628
PSES	Wenninger, Erik J.	Kimberly	Monsanto Company	$9,000
PSES	Wenninger, Erik J.	Kimberly	National Potato Promotion Board	$53,372
PSES	Wenninger, Erik J.	Kimberly	Monsanto Company	$16,080
PSES	Wenninger, Erik J.	Kimberly	Idaho Potato Commission	$46,000
PSES	Wenninger, Erik J.	Kimberly	Idaho Potato Commission	$43,197
PSES	Wenninger, Erik J.	Kimberly	Idaho Potato Commission	$20,995
PSES	Wenninger, Erik J.	Kimberly	Idaho Potato Commission	$3,705
PSES	Wharton, Phillip	Aberdeen	Idaho Potato Commission	$8,500
PSES	Wharton, Phillip	Aberdeen	Idaho Potato Commission	$1,500
PSES	Wharton, Phillip	Aberdeen	Monsanto Company	$4,824
PSES	Wharton, Phillip	Aberdeen	Idaho Potato Commission	$22,000
PSES	Xiao, Fangming	Moscow	Regents University of California Riverside	$564
PSES	Xiao, Fangming	Moscow	Regents University of California Riverside	$13,740
PSES	Xiao, Fangming	Moscow	Regents University of California Riverside	$2,000
PSES	Xiao, Fangming	Moscow	Regents University of California Riverside	$18,000
PSES	Xiao, Fangming	Moscow	Regents University of California Riverside	$79,416
			Total PSES	**$10,683,590**
			Total Awards	**$15,975,980**