

**Faculty Achievements and Activities  
College of Agriculture**

**Awards and Honors**

**Bailey, Deevon**

International Professor of the Year, College of Agriculture, Utah State University, (May 1, 2012).

**Benninghoff, Abby**

Ad-hoc Member, Chemo-Dietary Prevention Study Section, Center for Scientific Review, NIH,  
(February 2012).

Ad-hoc Member, Mechanistic Research on Natural Products Panel, Center for Scientific Review, NIH,  
(February 2012).

**Bentley, Marion Taylor**

Western Rural Development Center Fellow, Western Rural Development Center, (October 2012).

Award for Educational Programming - Regional, National Association of Community Development  
Specialists, (May 2012).

Award for Educational Programming - National, National Association of Community Development  
Specialists, (May 2012).

**Berrett, Jared V**

Teacher of the Year Runner Up 2012 State of Utah, San Juan County School District, (January 1, 2012).

**Christensen, Keith M**

Faculty Fellow, Center for Persons with Disabilities, (October 2012).

Charles Lewis Excellence in Research Award, American Horticultural Therapy Association, (October 6,  
2012).

**Drost, Daniel T**

Graduate Research Mentor of the Year, College of Agriculture, (April 30, 2012).

**Galloway, Parl**

Service to Faculty Award, (August 2012).

**George, Benjamin Hollis**

2012 College of Agriculture Graduate Student Teacher of the Year, College of Agriculture, (September  
20, 2012).

**Hall, Kelsey**

1st Place Research Poster, Western Region of the American Association for Agricultural Education,  
(April 2012).

**Hanks, Dallas A**

State Directors Land Partnership, BLM, (April 2, 2012).

Gift to Center, Washakie energy, (March 2012).

Outstanding Sustainable Planning, Design or Development Initiative, Federal Planning Division,  
(February 28, 2012).

**Hemingway, Lawrence T.**

Teacher of the Year, Engineering Technology Education, (March 1, 2012).

**Hole, David Jay**

WAAESD Award of Excellence, Western Association of Agricultural Experiment Station Directors,  
(July 2012).

Adjunct Professor in the 'Interdisciplinary Graduate Program in Agricultural Biotechnology', Kasetsart  
University, (January 30, 2012).

**Israelsen, Marlene**

2012 College of Agriculture Teacher of the Year Award, (April 2012).

2012 NDFS Teacher of the Year Award, (January 2012).

2012 Recognized Young Dietitian of the Year Award (Nominee), Utah Dietetic Association, (January  
2012).

**Jenson, Justin**

Second high team, National Dairy Challenge, (March 31, 2012).

**Jones, Scott B**

Faculty Researcher of the Year, College of Agriculture, (August 15, 2012).

**Kulmatiski, Andrew**

Outstanding Paper of 2010, Western North American Naturalist, (January 3, 2012).

**Lawver, Rebecca Grace**

1st Runner-Up Outstanding Article in the Journal of Agricultural Education Volume 52, Journal of  
Agricultural Education, (May 2012).

2012 Distinguished Manuscript Award, American Association for Agricultural Education National  
Research Conference, (May 2012).

3rd Place Innovative Idea Poster Presentation, Faculty Division, American Association for Agricultural  
Education National Research Conference, (May 2012).

**Martineau, Stanley D**

NACAT foundation trustee, North American Council of Automobile Teachers, (July 2012).

**Martini, Silvana**

William C. Winder and Rebecca Steward Winder Professorship Award, Department of Nutrition, Dietetics, and Food Sciences, Utah State University, (2012).

**McKendrick, Scott S**

Champion Ranch Horse Pleasure, Cache County Fair and Rodeo, (August 11, 2012).

**McMahon, Donald J.**

Fellow, American Dairy Science Association, (July 17, 2012).

**Miller, Rhonda L**

Undergraduate Research Mentor, College of Agriculture, (August 15, 2012).

**Olsen, Henning J**

Top 10 in Accounting 34 consecutive years, Phi Beta Lambda (PBL), (March 30, 2012).

**Pate, Michael L**

3rd Place Outstanding Innovative Idea Poster, American Association for Agricultural Education, (May 15, 2012).

**Rasmussen, V Philip**

Special Invited Presentation by VPR to Congress @ Wash.,DC Capitol, Soil Science Society of America/American Geophysical Union, (July 25, 2012).

Awarded 18th Year Funding (\$1.1 million): Administration of USDA-SARE (Extension) PDP Program for the western Region; \$1.08 million (\$59.9 million cumulative), USDA-NIFA National Headquarters, Wash., D.C., (July 1, 2012).

Obtained 18th year funding (\$3.2 million): Administration of USDA-SARE (R&E) CENTER for the Western Region, USDA-NIFA-SARE, (June 15, 2012).

**Reeve, Edward M**

Invited Expert in Technology and Engineering Education, ITEEA - The Technology and Engineering Teacher, (December 2012).

Keynote Speaker, King Mongkut's Institute of Technology Ladkrabang (KMITL), (May 2012).

**Reeve, Jennifer Rose**

Civically Engaged Scholar for Utah State University 2012., Utah Campus Compact, (April 7, 2012).

**Rupp, Larry A**

2012 Pi Alpha Xi Photography Contest Best in Show, Am Soc Hort Science - Pi Alpha Xi, (2012).

**Shirley, Lindsey M**

Outstanding Career & Technical Educator Award, Utah Association of Teachers of Family and Consumer Sciences, (June 2012).

Teaching Award of Merit, North American Colleges and Teachers of Agriculture, (May 2012).

Teacher of the Year, School of Applied Sciences, Technology and Education, (April 2012).

**Tarbet, Bart E**

Young Investigator Award, International Society for Antiviral Research, (April 19, 2012).

**Tryon, Mike R**

2005 AWS educator to the year/2012 Civically Engaged Staff Member, American Welding SocietyUSU, (January 1, 2012).

**Vanderwall, Dirk K**

Robert Whitlock Award, Department of Clinical Studies, New Bolton Center, School of Veterinary Medicine, University of Pennsylvania, (July 2012).

**Warnick, Brian K**

2012 Teacher of the Year/Eldon J. Gardner Teaching Award, Utah State University, (April 21, 2012).

**Yang, Bo**

Landscape Architecture Foundation 2012 Research Fellow, Landscape Architecture Foundation (LAF), (April 2012).

**Youngberg, Lon T**

Silver Member Award, American Welding Society, (December 2012).

**Publications/Intellectual Contributions**

**Allen, Karin E**

Utah's Cottage Food Rule: Regulations and Resources to get you started, (2012).

Tools to Assist Food Entrepreneurs, (November 2012).

Understanding Food Labels, Part 1: The Basics, (September 2012).

Understanding Food Labels, Part 2: The Ingredient Statement, (September 2012).

Understanding Food Labels, Part 3: Label Claims, (September 2012).

**Bailey, Deevon**

Utah Shopper Awareness of and Willingness to Pay for Utah's Own Food Products: Phase I Report, (July (3rd Quarter/Summer) 9, 2012), A Report to the Utah Department of Agriculture and Food.

**Baldwin, Thomas J**

Pathology in Practice: Echinococcus granulosus infection in a Utah sheep, (December 1, 2012), JAVMA, 241, 1449-1451.

Dermatopathy in Juvenile Angus Cattle due to Vitamin A Deficiency, (July (3rd Quarter/Summer) 2012), Journal of Veterinary Diagnostic Investigation, 24, 763-766.

**Barnard, Dale**

Antiviral agents derived from novel 1-adamantyl singlet nitrenes, (2012), Antiviral Chemistry & Chemotherapy/International Medical Press, online.

Efficacy of combined therapy with amantadine, oseltamivir, and ribavirin in vivo against susceptible and amantadine-resistant influenza A viruses, (2012), PLoS ONE, 7(1): e31006.

**Beard, F. Richard**

Calculating Pesticide Toxicity, (October (4th Quarter/Autumn) 2012).

Glove Resistance to Pesticides, (October (4th Quarter/Autumn) 2012), 2.

Protecting Pollinators from Pesticides, (October (4th Quarter/Autumn) 2012).

**Benninghoff, Abby**

Productivity studies utilizing recombinant CHO cells in stirred-tank bioreactors: a comparative study between pitched-blade and backed-bed reactor systems, (July (3rd Quarter/Summer) 2012), BioProcessing Journal, 11, 29-36.

Formulation of the Total Western Diet (TWD) as a basal diet for rodent cancer studies., (January (1st Quarter/Winter) 2012), Journal of Agricultural and Food Chemistry, 60, 6736-6742.

Promotion of hepatocarcinogenesis by perfluoroalkyl acids in rainbow trout, (January (1st Quarter/Winter) 2012), Toxicological Sciences, 125, 69-78.

**Bevan, Stacy Lyn**

Farm Field Trips Provide Sensory-based Experiences with Fresh, Local Produce, (June 2012), Journal of Nutrition Education and Behavior, 44, 2789-279.

**Black, Brent L**

Involving the public in cultivar evaluation research, (2012), Diversified agriculture conference.

Involving the public in cultivar evaluation research, (2012), National Association of County Agricultural Agents.

Macronutrient management for Utah Orchards, (November 2012), USU Cooperative Extension.

The Influence of Crop Density on Annual Trunk Growth of 'Golden Delicious' Apple Trees on Three Rootstocks at 11 Locations., (October (4th Quarter/Autumn) 2012), Journal of the American Pomological Society, 66, 183-195.

Defending the Castle: Integrated Pest Management in High Tunnel Strawberries, (October (4th Quarter/Autumn) 2012), USU Cooperative Extension.

Improving growth and productivity of early-season high tunnel tomatoes with targeted temperature additions, (July (3rd Quarter/Summer) 31, 2012), HortScience, 47, 733-740.

Summary of the NC-140 apple physiology trial: The relationship between 'Golden Delicious' fruit weight and crop density at 10 locations as influenced by three dwarfing rootstocks, (April (2nd Quarter/Spring) 2012), Journal of the American Pomological Society, 66, 78-90.

Alternative orchard floor management strategies, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

High Tunnel Winter Spinach Production, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

High Tunnel Pepper Production, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

Reviewing potential local fruit markets: A Utah case study, (January (1st Quarter/Winter) 2012), Journal of the American Pomological Society, 66, 16-22.

### **Boettinger, Janis L**

Digital Soil Mapping in a Changing World, (October (4th Quarter/Autumn) 2012), CRC Press/Balkema -- Taylor and Francis Group, 301-305.

Ecological Type Classification and Mapping in the Beartooth Mountains and Wind River Range, Custer and Shoshone National Forests, MT and WY, (October (4th Quarter/Autumn) 2012), 11th Biennial Scientific Conference on the Greater Yellowstone Ecosystem: " Greater Yellowstone in Transition: Linking Science and Decision Making".

Spatial prediction of biological soil crust classes: Value-added DSM from soil survey, (October (4th Quarter/Autumn) 2012), CRC Press/Balkema -- Taylor and Francis Group, 57-60.

Soil Mapping and Assessment in Arid Lands: Increasing Aridity and Land-Use Intensity, (October (4th Quarter/Autumn) 1, 2012), American Society of Agronomy.

The STEP-AWBH Space-Time Model for Digital Soil Mapping, (October (4th Quarter/Autumn) 1, 2012), Soil Science Society of America.

Digital Soil Mapping in a Changing World, (April (2nd Quarter/Spring) 2012), Digital Soil Assessments and Beyond: 5th Global Workshop on Digital Soil Mapping.

Spatial prediction of biological soil crust classes: Value-added digital soil mapping from soil survey, (April (2nd Quarter/Spring) 2012), Digital Soil Assessments and Beyond: 5th Global Workshop on Digital Soil Mapping.

Soil and Landscape Characteristics of *Hesperidanthus suffrutescens*, (March 2012), Utah Native Plant Society Annual Meeting.

### **Bosworth, Ryan C**

Utah Shopper Awareness of and Willingness to Pay for Utah's Own Food Products: Phase I Report, (July (3rd Quarter/Summer) 9, 2012), A Report to the Utah Department of Agriculture and Food.

### **Bugbee, Bruce G**

Biodiesel from Microalgae, Yeast, and Bacteria: Engine Performance and Exhaust Emissions., (2012), Energy & Fuels. 27: 220-228.

Understanding precision nitrogen stress to optimize the growth and lipid content tradeoff in oleaginous green microalgae, (2012), *Bioresource Technology*. 131: 188-194.

**Bunch, Megan**

Developing an Online Certification Program for Nutrition Education Assistants, (October (4th Quarter/Autumn) 2012), *Society of Nutrition Education and Behavior*, 44, 407-414.

DEVELOPING AN ONLINE CERTIFICATION PROGRAM FOR NUTRITION EDUCATION ASSISTANTS, (September 2012), *Journal of Nutrition Education and Behavior*, 44, 407-414.

**Bunch, Thomas David**

Effect of embryo culture length on production of cloned transgenic goats, (December 2012), *Reproduction, Fertility & Development*, 25, 162.

Effect of Embryo Culture Length on Production of Cloned Transgenic Goats, (January (1st Quarter/Winter) 2012), *Reproduction, Fertility and Development*, 162.

**Cardon, Grant E**

Macronutrient management for Utah Orchards, (November 2012), *USU Cooperative Extension*.

Revisiting soil nutrient sufficiency levels and crop yield response to fertilizer application, (July (3rd Quarter/Summer) 2012), *Crops and Soils Magazine*, 26-27.

Alternative orchard floor management strategies, (April (2nd Quarter/Spring) 2012), *USU Cooperative Extension*.

**Carman, John G**

Apomixis for crop improvement: insights from expression profiling of sexual and apomictic *Boechera* and aposporous and non-aposporous sorghum, (December 15, 2012), *National Training Program on Apomixis: Components, Importance and Utilization/exploitation*, Indian Grassland and Fodder Research Institute (IGFRI), Ministry of Agriculture.

Apomixis for crop improvement: insight from studies of apomixis in other kingdoms, (December 14, 2012), *National Training Program on Apomixis: Components, Importance and Utilization/exploitation*, Indian Grassland and Fodder Research Institute (IGFRI), Ministry of Agriculture.

Ovule transcriptomes of weakly aposporous and non-aposporous sorghum sibs, (January (1st Quarter/Winter) 17, 2012), *Apomixis Workshop, International Plant & Animal Genome XVIII Conference*.

**Christensen, Keith M**

ADA Needs Assessment for Design/Build Professionals., (2012), *Rocky Mountain ADA Center*.

Comprehensive Inclusive Play Spaces!, (2012), *California Parks & Recreation*, 68, 60-62.

Utahns' Understanding of Autism Spectrum Disorder, (2012), *Disability and Health Journal*.

The Relationship between Outdoor Recreation and Depression among Individuals with Disabilities., (2012), *The Journal of Leisure Research*, 44, 486-506.

Comprehensive Inclusive Play Spaces!, (July (3rd Quarter/Summer) 2012), California Association for the Education of Young Children.

**Christofferson, Debra Claire**

Food Sense , EARs, and Year End report 2012, (December 31, 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

Food Sense Office Policy Manual 2012, version 7, (2012), Utah State University Extension and Nutrition Dietetic and Food Science, 7.

Developing an Online Certification Program for Nutrition Education Assistants, (October (4th Quarter/Autumn) 2012), Society of Nutrition Education and Behavior, 44, 407-414.

The Scoop - July 2012, (July (3rd Quarter/Summer) 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

The Scoop - June 2012, (June 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

Cache Valley Kids - Go For Whole, (June 2012), Cache Valley Kids Magazine, 1, 6.

The Scoop - May 2012, (May 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

The Scoop - April 2012, (April (2nd Quarter/Spring) 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

Cache Valley Kids - Smooth Operator, (April (2nd Quarter/Spring) 2012), Cache Valley Kids Magazine, 1, 7.

The Scoop - March 2012, (March 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

The Scoop - February 2012, (February 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

Cache Valley Kids - Super Supper Heros, (February 2012), Cache Valley Kids, 1, 5.

The Scoop - January 2012, (January (1st Quarter/Winter) 2012), Utah State University Extension and Nutrition Dietetic and Food Science.

**Cornforth, Daren P**

Effect of very fast chilling and ageing time on ultra-structure and meat quality characteristics of Chinese Yellow cattle *M. Longissimus lumborum.*, (December 2012), Meat Science, 92, 795-804.

Development of a beef flavor lexicon and its application to compare the flavor profile and consumer acceptance of rib steaks from grass- or grain-fed cattle., (2012), Meat Science, 90, 116-121.

Chemical Characterization of Pasture- and Grain-fed Beef Related to Meat Quality and Flavor Attributes, (October (4th Quarter/Autumn) 2012), International Journal of Food Science and Technology.



Laboratory Methods (Section X, XI), (October (4th Quarter/Autumn) 2012), American Meat Science Association, online website.

**Coulombe, Roger A**

My Fulbright Experience: Many Happy Returns, (December 10, 2012), Fulbright Center News - 60th anniversary, 22, 20.

Urban Particulate Matter Activates Akt in Human Lung Cells, (July (3rd Quarter/Summer) 2012), Archives of Toxicology, 86, 121-35.

**Creech, Joseph Earl**

Influence of winter annual weed management and crop rotation on soybean cyst nematode (*Heterodera glycines*) and winter annual weeds: years four and five, (December 2012), Weed Science, 60, 634-640.

Dryland Safflower Response to Dormant Seeding in Utah, (December 15, 2012), Journal of the NACAA, 5.

Teff Hay Production Guidelines for Utah, (October (4th Quarter/Autumn) 2012), Utah State University, 1-4.

Timing of low glyphosate rates for control of medusahead (*Taeniatherum caput-medusae*) in sagebrush scrub, (January (1st Quarter/Winter) 2012), Invasive Plant Management Science, 5, 1-8.

**Curtis, Kynda**

Box Elder County Crop Production Costs and Returns, 2011, (2012), Extension.

Community Supported Agriculture Program Consumer Preferences for Local and Organic Foods, (2012), Extension.

Community Supported Agriculture Programs: A Sustainable Approach to Local Foods, (2012), Extension.

Consumer Willingness to Pay for Specialty Meats, (2012), Extension.

Davis County Crop Production Costs and Returns, 2012, (2012), USU Extension.

Davis County Mixed Vegetables, 100 acres, 2012, (2012), Utah Agricultural Statistics, 2012 annual report, 83,90.

Davis-Weber county agriculture information, (2012), Davis County Extension.

Duchesne County Crop Production Costs and Returns, 2011, (2012), Extension.

Farmers' Market Manager Perspectives on Season Extension Potential, (2012), Extension.

Garfield County Crop Production Costs and Returns, 2011, (2012), Extension.

Kane County Crop Production Costs and Returns, 2011, (2012), Extension.

Marketing Strategies for Organic and Natural Meat Producers, (2012), Extension.

Millard County Crop Production Costs and Returns, 2012, (2012), Extension.

- Morgan County Crop Production Costs and Returns, 2011, (2012), Extension.
- Potential for Farmers' Market Season Extension: Grower and Market Manager Viewpoints, (2012), Extension.
- Potential Pricing for Locally Grown Produce in the Extended Season, (2012), Extension.
- Wasatch County Crop Production Costs and Returns, 2011, (2012), Extension.
- Wasatch Front Mixed Vegetable Production Costs and Returns, 2012, (2012), Extension.
- Weber County Crop Production Costs and Returns, 2011, (2012), Extension.
- Rancher Adoption Potential of the Birdsfoot Trefoil Pasture Beef Production System in the Intermountain West, (August 2012), Cooperative Extension.
- Utah Shopper Awareness of and Willingness to Pay for Utah's Own Food Products: Phase I Report, (July (3rd Quarter/Summer) 9, 2012), A Report to the Utah Department of Agriculture and Food.
- Daggett County Crop Production Costs and Returns, 2011, (June 2012), Extension.
- Juab County Crop Production Costs and Returns, 2011, (June 2012), Utah State University Extension.
- Uintah County Crop Production Costs and Returns, 2011, (June 2012), Extension.
- Cache County Crop Production Costs and Returns, 2011, (June 2012), Utah State University Extension Publication.
- Summit County Crop Production Costs and Returns 2011, (June 2012), Utah State University Extension, 1-7.

**Davies, Chris**

- Effect of embryo culture length on production of cloned transgenic goats, (December 2012), Reproduction, Fertility & Development, 25, 162.
- Generation of cloned transgenic goats with cardiac specific overexpression of transforming growth factor  $\beta 1$ , (December 2012), Reproduction, Fertility & Development, 25, 162-163.
- Large-scale growth of mouse P815 cells expressing a bovine non-classical major histocompatibility complex class I protein utilizing a pitched-blade bioreactor, (October (4th Quarter/Autumn) 2012), BioProcessing Journal, 11, 27-34.
- Ovine Herpesvirus 2 Infection in American bison: Virus and Host Dynamics in the Development of Sheep-Associated Malignant Catarrhal Fever, (October (4th Quarter/Autumn) 12, 2012), Veterinary Microbiology, 159, 307-319.
- Development of a transgenic goat model with cardiac-specific overexpression of human transforming growth factor- $\beta 1$  to study the relationship between atrial fibrosis and atrial fibrillation, (August 3, 2012), Circulation Research, 111, A251.
- Cattle MHC nomenclature: is it possible to assign sequences to discrete class I genes?, (June 2012), Immunogenetics, 64, 475-480.

Two-way calf to dam major histocompatibility class I compatibility increases risk for retained placenta in cattle, (March 2012), 67, 224-230.

CD205 Antigen Targeting Combined with Dendritic Cell Recruitment Factors and Antigen-linked CD40L Activation Primes and Expands Significant Antigen-Specific Antibody and CD4+ T cell Responses Following DNA Vaccination of Outbred Animals, (February 21, 2012), Vaccine, 30, 1624-1635.

**Drost, Daniel T**

Collecting and Storing Seeds From Your Garden, (October (4th Quarter/Autumn) 2012).

Defending the Castle: Integrated Pest Management in High Tunnel Strawberries, (October (4th Quarter/Autumn) 2012), USU Cooperative Extension.

Improving growth and productivity of early-season high tunnel tomatoes with targeted temperature additions, (July (3rd Quarter/Summer) 31, 2012), HortScience, 47, 733-740.

High Tunnel Winter Spinach Production, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

Fennel in the Garden, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

High Tunnel Pepper Production, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

Okra in the Garden, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

Seed Poppy in the Garden, (April (2nd Quarter/Spring) 2012), USU Cooperative Extension.

Yield and Soil Quality under Transition Organic High Tunnel Tomatoes, (January (1st Quarter/Winter) 2012), American Soc. Horticultural Sci, 47, 38-44.

**Eun, Jong-Su**

Addition of high concentration of inorganic selenium in grass hay does not interfere with microbial fermentation in mixed ruminal microorganisms in continuous cultures, (2012), Professional Animal Scientist.

Assessment of chestnut tannin extract supplementation on animal performance and ruminal fermentation profiles in feedlot finishing diets, (2012), Western Section, American Society of Animal Science, 63, 35-38.

Assessment of chestnut tannin extract supplementation on animal performance and ruminal fermentation profiles in feedlot finishing diets, (2012), J. Anim. Sci., 90 (Suppl. 3), 150.

Effects of an exogenous proteolytic enzyme on growth performance of beef steers and in vitro ruminal fermentation in continuous cultures, (2012), Professional Animal Scientist, 28, 452-463.

Effects of corn silage hybrids and quality of alfalfa hay on nitrogen metabolism and ruminal fermentation of early lactating dairy cows, (2012), J. Dairy Sci., 95, 176.

Effects of energy supplementation for pasture forages on in vitro ruminal fermentation in continuous cultures, (2012), J. Dairy Sci., 95 (Suppl. 2), 45.

Effects of feeding brown midrib corn silage with a high dietary concentration of alfalfa hay during early and mid-lactation on milk production of Holstein dairy cows, (2012), J. Dairy Sci., 95, 180.

Effects of pine bark supplementation on performance, rumen fermentation, and carcass characteristics of Kiko crossbred male goats, (2012), *J. Anim. Sci.*, 90, 3556–3567.

Effects of supplementing propionibacteria in lactation dairy diets on ruminal fermentation in continuous cultures., (2012), *J. Dairy Sci.*, 95, 215.

Emerging opportunities and challenges on exploitation of bioactive plant secondary compounds to mitigate environmental impacts by ruminants, (2012), *J. Anim. Sci.*, 90 (Suppl. 3), 491.

Fatty acid composition in adipose tissue of pasture- and feedlot-finished beef steers, (2012), *Professional Animal Scientist*, 28, 184–193.

Growth performance, ruminal fermentation profiles, and carcass characteristics of beef steers grazing tall fescue without or with nitrogen fertilization, (2012), *Professional Animal Scientist*, 28, 519–527.

Ruminal metabolism in continuous culture fermentation when administrating high concentration of inorganic selenium in mixed cultures of ruminal microorganisms, (2012), *J. Anim. Sci.*, 90 (Suppl. 3), 618.

#### **Feuz, Dillon M**

Preserving Quality Silage at the Bunker, (September 1, 2012), Utah State University Extension Publication.

Buying and Selling Corn Silage or Other High Moisture Feeds: Value the Feed not the Water, (August 1, 2012), Utah State University Extension Publication.

Investing in Genetics, (May 2012).

#### **Frame, David D**

4-H Poultry Showmanship Questions, (May 1, 2012).

Information for the Poultry Showmanship Judge, (May 1, 2012), USU Extension.

Preparing Your Bird for the Poultry Showmanship Contest, (May 1, 2012), USU Extension.

Causes and Control of Selected Diseases Related to Backyard Chicken Flocks in Utah, (April (2nd Quarter/Spring) 2012), USU Extension.

Postmortem Evaluation of Turkeys, (April (2nd Quarter/Spring) 2012), USU Extension.

What Is Expected of the Poultry Showman?, (February 15, 2012), USU Extension.

Organizing a Poultry Showmanship Contest, (February 10, 2012).

#### **Gillies, Robert**

The Wasatch Dendroclimatology Research (WADR) group: Multi-disciplinary investigations into the paleoclimatology of Northern Utah as recorded in tree-ring series, (2012), USU Spring Runoff Conference, Utah State University, April 3-4, Abstracts with Programs..

Sustainability of Livestock Production and Climate Change. International Conference on the Impact of Climate Change on Food Sovereignty and Community Welfare in Semi-Arid Regions, (September 2012), . International Conference on the Impact of Climate Change on Food Sovereignty and Community Welfare in Semi-Arid Regions.

Observational and synoptic analyses of the winter precipitation regime change over Utah, (July (3rd Quarter/Summer) 2012), *Journal of Climate*, 25, 4679-4698.

Influence of the Pacific quasi-decadal oscillation on the monsoon precipitation in Nepal, (May 2012), *Climate Dynamics*.

Observational and supportive modeling analyses of winter precipitation change in China over the last half century, (April (2nd Quarter/Spring) 2012), *International Journal of Climatology*, 32, 747-758.

Connecting subseasonal movements of the winter ridge in western North America to local-scale inversion climatology in Cache Valley (Utah), (March 2012), *Journal of Applied Meteorology and Climatology*, 51, 617-627.

Multidecadal Drought Cycles in the Great Basin Recorded by the Great Salt Lake: Modulation from a Transition-Phase Teleconnection, (March 2012), *Journal of Climate*, 25, 1711-1721.

#### **Gowen, Brian B**

Extended protection against phlebovirus infection conferred by recombinant adenovirus expressing consensus interferon (DEF201), (2012), *Antimicrobial Agents & Chemotherapy*, 56, 4168-74.

#### **Hall, Jeffery O**

*Small Animal Toxicology*, 3rd edition, (October (4th Quarter/Autumn) 2012), W.B. Saunders Company, 589-594.

*Small Animal Toxicology*, 3rd edition, (October (4th Quarter/Autumn) 2012), W.B. Saunders Company, 617-620.

*Small Animal Toxicology*, 3rd edition, (October (4th Quarter/Autumn) 2012), W.B. Saunders Company, 595-600.

A comparison of the metabolism of the abortifacient compounds from Ponderosa pine needles in conditioned versus naive cattle, (July (3rd Quarter/Summer) 2012), *J Anim Sci*, 90, 4611-4617.

Dermatopathy in Juvenile Angus Cattle due to Vitamin A Deficiency, (July (3rd Quarter/Summer) 2012), *Journal of Veterinary Diagnostic Investigation*, 24, 763-766.

Respiratory Insufficiency Correlated Strongly with Mortality of Rodents Infected with West Nile Virus, (July (3rd Quarter/Summer) 2012), *PLoS ONE*, 7, e38672.

*Veterinary Toxicology*, 2nd edition, (July (3rd Quarter/Summer) 2012), Elsevier Publishing, 562-566.

*Veterinary Toxicology*, 2nd edition, (July (3rd Quarter/Summer) 2012), Elsevier Publishing, 544-548.

*Veterinary Toxicology*, 2nd edition, (July (3rd Quarter/Summer) 2012), Elsevier Publishing, 549-557.

Preference for condensed tannins by sheep in response to challenge infection with *Haemonchus contortus*, (July (3rd Quarter/Summer) 2012), *Veterinary Parasitology*, 188, 104-114.

Toxicokinetics and pathology of plant-associated acute selenium toxicosis in steers, (March 2012), J. Vet. Diag. Invest., 24, 319-327.

**Hall, Kelsey**

The new community of rules: Marketing on the social web. [Review of the book The new community of rules: Marketing on the social web], (September 2012), Journal of Applied Communications, 96, 11-13.

**Hansen, Conly L**

Completely Stirred Tank Reactor Behavior in an Unmixed Anaerobic Digester, (2012), Water Environment Research, 84, 711-718.

Sensory and Instrumental Evaluation of Beef Eye-of-Round Steaks Processed with High-Pressure Needleless Injection, (December 2012), J. of Food Process Engineering.

Translocation and Cross-Contamination of Escherichia coli O157 in Beef Eye-of Round Subprimals Processed with High-Pressure Needleless Injection, (August 2012), J. of Food Science, 77, E154-E158.

Food Waste Recycling and Algal Destruction for Municipalities and Food Plants, (July (3rd Quarter/Summer) 29, 2012), American Society of Agricultural and Biological Engr..

Implementation of Package IBR Anaerobic Digester at the Ohio State University, (July (3rd Quarter/Summer) 29, 2012), American Society of Agricultural and Biological Engr..

**Hatch, Royce Lynn**

Using Think-Aloud Pair Problem Solving as a Formative Assessment during Equipment Troubleshooting Training, (September 2012), NACTA, 56.

**Hintze, Korry J**

Dietary fat composition influences tissue lipid profile and gene expression in Fisher-344 rats, (October (4th Quarter/Autumn) 2012), Lipids, 47, 1119-1130.

Formulation of the Total Western Diet (TWD) as a basal diet for rodent cancer studies., (January (1st Quarter/Winter) 2012), Journal of Agricultural and Food Chemistry, 60, 6736-6742.

**Hipps, Lawrence E**

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- Drought year issues include aflatoxin testing and nitrate testing of feed. New FSIS testing for more drugs in meat of dairy cattle, (September 1, 2012), Utah State University Dairy Veterinary Newsletter, September, 1-6.
- Bacteria counts in on-farm pasteurized milk for dairy calves versus season and time post-pasteurization, (August 1, 2012), Utah State University Dairy Newsletter, 35, 3-4.
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- Johne's disease milk ELISA test strategy. SPC in pasteurized milk for calves – time, season, and temperature, (June 15, 2012), Utah Veterinary Medical Association, 1-11.
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- Bovine viral diarrhea milk ELISA test detecting anti-p80 antibody – association with milk handling methods and cow characteristics, (May 22, 2012), Journal of Veterinary Science and Technology, 3, 1-5.
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**Zobell, Dale**

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Beef heifer retention decisions, (April (2nd Quarter/Spring) 30, 2012), Utah State University Extension Publication, AG/Beef 2012-01.

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## **Contracts, Grants and Sponsored Research**

### **Allen, Karin E**

Modifying the Functional Properties of Lipids using High Intensity Ultrasound, Funded, \$282,290.00, (September 1, 2009 - August 31, 2012).

### **Bailey, Deevon**

Improving the Resilience of Mixed Farm Systems to Pending Climate Change in Far Western Nepal, Funded, \$449,987.00, (May 1, 2012 - April 30, 2015).

Sustainable Livestock Production on the Borana Plateau, Funded, \$500,000.00, (October 1, 2012 - April 19, 2015).

Past and Future Climate Assessments of Livestock Vulnerabilities in Nepal, Funded, \$80,000.00, (October 1, 2011 - September 30, 2012).

Utah Shopper Awareness of and Willingness to Pay for Utah's Own Food Products, Funded, \$13,300.00, (May 1, 2012 - June 30, 2012).

### **Barnard, Dale**

Identification of Novel Broad Spectrum Influenza Virus Inhibitors, Funded, \$578,200.00, (July 1, 2012 - June 30, 2014).

A novel therapy to treat influenza-induced ARDS, Funded, \$78,023.21, (January 1, 2011 - December 31, 2012).

(Task A37) Mouse Models for Seasonal and Pandemic Influenza Viruses for Therapeutics (Task A37), Funded, \$854,000.00, (October 1, 2011 - September 30, 2012).

(Task B01) In Vitro Assessment for Antimicrobial Activity, Funded, \$498,500.00, (October 1, 2011 - September 30, 2012).

(Task B05) In Vitro assessment for antimicrobial activity: Respiratory panel for viruses, Funded, \$459,900.00, (October 1, 2011 - September 30, 2012).

Mouse Models for Evaluation of Influenza vaccines (NIH-NIAID-HHSN272201000039I, Task A15), Funded, \$519,578.00, (September 27, 2011 - September 26, 2012).

ARRA G-102-11-WR160. A nanoparticle immunoprophylactic strategy for a broad spectrum of lung viruses, Funded, \$87,000.00, (July 1, 2010 - June 30, 2012).

**Beard, F. Richard**

Funding Support for USU Pesticide Safety Education Program, Funded, \$5,000.00, (April 2012 - December 2012).

**Bell, David L**

Utah Rivers and Trails -, Funded, \$7,365.00, (August 2011 - December 2015).

Utah Rivers, Trails & Conservation - Technical Assistance, Funded, \$8,825.00, (August 2011 - June 2014).

Utah Rivers, Trails & Conservation Assistance Program, Funded, \$21,365.00, (August 2011 - June 2014).

Bear Lake Region Charrette, Funded, \$4,000.00, (January 2012 - April 2012).

**Benninghoff, Abby**

Effects of macro- and micronutrients on weight gain and biomarkers of metabolic health in a rodent model of the Western diet, Funded, \$15,000.00, (June 1, 2012 - April 30, 2014).

Impact of typical Western nutrition in early life on colon cancer risk, Funded, \$20,000.00, (June 1, 2012 - April 30, 2014).

Effects of consuming a bioactive yogurt on endotoxemia and markers of metabolic syndrome, Funded, (September 2012 - March 2014).

Role of the regulatory protein p53 in somatic cell nuclear transfer, Funded, \$20,000.00, (May 2010 - April 2012).

Impact of transplacental PAH exposure on the epigenome, Funded, \$140,000.00, (April 1, 2010 - March 31, 2012).

**Black, Brent L**

Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use, Funded, \$9,500.00, (November 30, 2012 - November 30, 2014).

Adapting high density orchard management strategies to Utah's fruit industry, Funded, \$29,975.00, (October 1, 2012 - September 30, 2014).

Evaluation of alternative fruit crops in a high elevation, short growing season at the Panguitch Farm, Funded, \$27,000.00, (July 1, 2012 - June 30, 2014).

Improving cold-climate strawberry production to meet local demand, Funded, \$20,000.00, (July 1, 2012 - June 30, 2014).

High-density orchard systems for improving tart cherry production efficiency, Funded, \$8,313.00, (October 1, 2011 - December 31, 2012).

Improving cold-climate strawberry production to meet local demand, Funded, \$19,950.00, (October 1, 2011 - December 31, 2012).

USU Extension Summer Internship, Funded, \$5,000.00, (May 2012 - September 2012).

Timing and effectiveness of frost protection in apples and cherries, Funded, \$18,102.00, (May 1, 2012 - June 30, 2012).

Mechanical harvest capabilities for fruit crop research, Funded, \$60,692.00, (July 1, 2011 - June 30, 2012).

Undergraduate student internship in fruit and vegetable high-tunnel production, Funded, \$5,000.00, (July 1, 2011 - June 30, 2012).

Developing Reduced Input Conventional Orchard Floor Management Options for Soil Quality, Pests, and, Funded, \$10,000.00, (March 1, 2011 - March 1, 2012).

**Boettinger, Janis L**

Shrubby Reed-Mustard Habitat: Parent Material, Soil, and Site Characteristics, Funded, \$161,662.00, (August 6, 2010 - September 18, 2014).

Digital Soil Mapping and Value-Added Soil Survey Information for Utah Public Lands, Funded, \$221,000.00, (September 1, 2009 - August 31, 2014).

Update and Add New Chapters to the Soil Survey Manual, Funded, \$30,000.00, (August 1, 2012 - July 31, 2014).

Rapid Carbon Assessment in Utah: Field Data Collection, Funded, \$20,023.00, (April 1, 2011 - March 31, 2012).

**Bugbee, Bruce G**

Timing and effectiveness of frost protection in apples and cherries, Funded, \$18,102.00, (May 1, 2012 - June 30, 2012).

**Bunch, Thomas David**

Genetically knock out the Sry gene in a XY male cell line established from a Tibetan argali sheep (*Ovis ammon hodgsoni*) to produce fertile females for the conservation of this critically endangered species, Funded, \$20,000.00, (July 1, 2012 - June 30, 2014).

**Caplan, Arthur Josef**

Measuring the Environmental Cost of Hypocrisy, Funded, \$19,761.00, (June 1, 2012 - June 30, 2014).

Intervening to Encourage Residential Water Conservation in Utah: Follow-up Survey of SPARC Households, Funded, \$12,800.00, (September 2011 - May 2012).

**Cardon, Grant E**

Developing adapted varieties and optimal management practices for quinoa in diverse environments, Funded, \$1,603,653.00, (October 1, 2012 - October 1, 2016).

Developing And Implementing Carbon Offset Protocols For Utah Agricultural Practices, Funded, \$3,057,157.00, (2010 - 2014).

Huntington Power Plant Irrigation and Soil Salinity Monitoring, Funded, \$50,537.35, (January 1, 2012 - December 31, 2012).

Managing The Production Of Birdsfoot Trefoil On Saline Soils As A Beef Cattle Finishing Forage, Funded, \$171,584.00, (2010 - 2012).

Improved Awareness of Water Resources in EPA Region 8 Through the Linking of People and Their Practices to Watersheds, Funded, \$650,000.00, (2008 - 2012).

Conservation Tillage under Irrigated Crop Conditions in Utah and the Intermountain West, Funded, \$7,394.00, (July 1, 2012 - July 31, 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

**Carman, John G**

Boechera expression profiling and functional characterization of genetic leads for developing self-reproducing hybrid crops. Pioneer Hi-Bred, Funded, \$50,000.00, (December 28, 2012 - December 27, 2015).

Targeted inhibition of reactive oxygen species (ROS) signaling may shift reproductive pathways, Funded, \$20,000.00, (July 2012 - June 2014).

Reactive oxygen species signaling and reproductive development in *Boechera* (Brassicaceae), Funded, \$12,000.00, (January 2011 - December 31, 2012).

Real-Time PCR Instrument for the Quantitative Detection of Gene Targets from Soil Microbial Communities and from Plant Cells, Funded, \$9,000.00, (June 2012).

**Christensen, Keith M**

Experimental Research on Pedestrian and Evacuation Behaviors of Individual with Disabilities; Theory Development Necessary to Characterize Individual-Based Models, Funded, \$594,486.00, (October 2011 - September 2014).

The Role Environmental Context Plays in Individuals with Disabilities' Health and Well-Being., Funded, \$16,974.00, (2011 - 2012).

Surveying the transportation needs of low-mobility individuals in Cache County, Utah, Funded, \$30,000.00, (September 2010 - June 2012).

#### **Christofferson, Debra Claire**

Utah Supplemental Nutrition Assistance Program - Education, Funded, \$959,743.00, (October 1, 2012 - September 30, 2015).

#### **Coulombe, Roger A**

Improve Native American Health Through Identification and Control of Natural Toxins, Funded, \$104,000.00, (December 1, 2009 - October 16, 2014).

Beneficial and Adverse Effects of Food-borne Bioactive Compounds on Human Health and Food Safety, Funded, (October 1, 2007 - September 30, 2012).

Antioxidant and anti-inflammatory dietary supplements and response to airborne particulate matter, Funded, \$147,685.00, (September 2011 - August 2012).

Reducing the Adverse Impacts of Agricultural Toxins, Funded, \$15,000.00, (July 1, 2007 - June 30, 2012).

Reference genome sequence for the turkey, *Meleagris gallopavo*., Funded, \$908,280.00, (March 1, 2010 - February 29, 2012).

#### **Creech, Joseph Earl**

Developing adapted varieties and optimal management practices for quinoa in diverse environments, Funded, \$1,603,653.00, (October 1, 2012 - October 1, 2016).

Compost carryover and cover crop cocktails for innovative soil conservation and fertility in dryland grain systems, Funded, \$69,352.00, (October 1, 2012 - October 1, 2015).

Oilseed Crop Research Trials, Funded, \$750.00, (February 1, 2012 - December 31, 2012).

Use of Alternative Agriculture and Irrigation Scheduling Technology For Water Conservation in the Walker Basin. Walker Basin Project: Phase II., Funded, \$319,122.00, (2010 - 2012).

Restoration of Downy Brome and Medusahead infested Rangelands with Glyphosate, Funded, \$116,100.00, (2008 - 2012).

Conservation Tillage under Irrigated Crop Conditions in Utah and the Intermountain West, Funded, \$7,394.00, (July 1, 2012 - July 31, 2012).

Compost carryover effects on yield, soil quality, and profitability in dryland organic wheat production systems, Funded, \$19,192.00, (July 1, 2011 - June 30, 2012).

## 2012

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

Effects of Teff Grass on the Growth of Beef Steers and Dairy Heifers, Funded, \$10,000.00, (May 6, 2011 - June 30, 2012).

### **Curtis, Kynda**

Building Farmers in the West, Funded, \$555,000.00, (September 2012 - June 2015).

Farm-Chef-Fork: Establishing enhanced farm to restaurant communication and sourcing across Utah, Funded, \$29,096.00, (October 2012 - September 2014).

Extension Intern Grants, Funded, \$10,000.00, (June 2012 - December 2012).

Risk Management Education Programs for Utah Producers 2011-2012, Funded, \$318,000.00, (October 2011 - December 2012).

Crop/Livestock Insurance Education for Nevada Agriculture 2011-2012, Funded, \$247,000.00, (October 2011 - September 2012).

Utah Building Farmers Program, Funded, \$750,000.00, (August 2010 - July 2012).

Compost carryover effects on yield, soil quality, and profitability in dryland organic wheat production systems, Funded, \$19,192.00, (July 1, 2011 - June 30, 2012).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

Evaluating Alternative Low Water Use Crops for the Great Basin, Funded, \$99,700.00, (July 2009 - June 2012).

### **Davies, Chris**

American Society for Reproductive Immunology Conference Support, Funded, \$20,000.00, (February 1, 2012 - January 31, 2014).

Trophoblast MHC-I: Trigger for Immune-Mediated Rejection of Cloned Bovine Fetuses, Funded, \$1,073,296.00, (September 29, 2008 - August 31, 2012).

Johne's Disease Integrated Program, Renewal, Funded, \$4,000,000.00, (March 15, 2008 - March 14, 2012).

### **Drost, Daniel T**

Effects of Agricultural Landscapes on Population Dynamics of Onion Thrips and Iris Yellow Spot Virus, Funded, \$19,646.00, (July 1, 2012 - June 30, 2014).

USU Extension Summer Internship, Funded, \$5,000.00, (May 2012 - September 2012).

Winter Greens in High Tunnels: Mechanisms of Plant Survival and Optimal Production, Funded, \$20,317.00, (October 1, 2011 - September 30, 2012).



## 2012

Risk Management Strategies for Underserved Audiences including Specialty Crop Producers in the Davis, CA RMA Region, Funded, \$100,000.00, (September 2011 - August 2012).

Undergraduate student internship in fruit and vegetable high-tunnel production, Funded, \$5,000.00, (July 1, 2011 - June 30, 2012).

### **Eun, Jong-Su**

Improving feed efficiency in dairy and beef cattle to enhance productive and environmental performance, Funded, \$75,000.00, (2012 - 2017).

Improving nutrient utilization, feed efficiency, and lactational performance of dairy cows by supplementing DEMP or/and Optigen in typical Intermountain West dairy diets, Funded, \$62,442.00, (2012 - 2014).

Improved organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil, Funded, \$1,019,411.00, (September 1, 2010 - August 31, 2014).

Improving Nutrient Utilization, Feed Efficiency, and Lactational Performance of Dairy Cows, Funded, \$62,400.00, (July 1, 2012 - May 31, 2014).

Strategic Approaches to Develop Optimal Feeding Program of Brown Midrib Corn Silage to Lactating Dai, Funded, \$82,532.00, (January 22, 2011 - December 22, 2012).

Improvement of Plant Materials and Beef Cow Production on Irrigated Pastures, Funded, \$80,000.00, (September 15, 2009 - September 14, 2012).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

Effects of Teff Grass on the Growth of Beef Steers and Dairy Heifers, Funded, \$10,000.00, (May 6, 2011 - June 30, 2012).

Manipulation of ruminal fermentation to enhance forage utilization and improve ruminant production, Funded, \$75,000.00, (July 1, 2008 - June 30, 2012).

Strategic Approach to Develop Functionally Bioactive Tannins to Reduce Ruminal Acidosis and Fecal Shedding of Escherichia coli by Feedlot Beef Steers, Funded, \$20,000.00, (May 15, 2010 - April 30, 2012).

### **Feuz, Dillon M**

Risk Management Education Programs for Utah Producers 2011-2012, Funded, \$318,000.00, (October 2011 - December 2012).

Crop/Livestock Insurance Education for Nevada Agriculture 2011-2012, Funded, \$247,000.00, (October 2011 - September 2012).

Improved beef liveweight gain using birdsfoot trefoil pasture, Funded, \$74,906.00, (August 30, 2009 - September 30, 2012).

### **Frame, David D**

Beginning Poultry, Funded, \$111.00, (August 17, 2012).

## 2012

Moroni Feed turkey School, Funded, \$2,750.00, (May 9, 2012 - May 10, 2012).

Poultry Seminars within Utah counties, Funded, \$835.00, (February 16, 2012 - March 22, 2012).

Instructor Parasitology Wet Lab, Funded, \$1,500.00, (February 7, 2012).

### **Gillies, Robert**

Climate and livestock in Nepal, Funded, \$450,000.00, (July 1, 2012 - June 30, 2015).

Improving the Resilience of Mixed Farm Systems to Pending Climate Change in Far Western Nepal, Funded, \$449,987.00, (May 1, 2012 - April 30, 2015).

Development of a climate-weather hybrid approach for summer long-range forecast in Taiwan, Funded, (April 10, 2012 - December 31, 2012).

Annual Water Balance at the Hunter and Huntington Research Farms, Funded, \$91,610.00, (January 1, 2011 - December 31, 2012).

Development of a climate-weather hybrid approach for summer long-range forecast in Taiwan, Funded, \$32,000.00, (April 2012 - December 2012).

Past and Future Climate Assessments of Livestock Vulnerabilities in Nepal, Funded, \$80,000.00, (October 1, 2011 - September 30, 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

Understanding and Projecting Climate Impacts of the Pacific Decadal Variability on the Intermountain West, Funded, \$39,955.00, (April 1, 2010 - May 31, 2012).

Past and Future Climate Assessments of Livestock Vulnerability in Nepal, Funded, \$79,900.00, (May 1, 2011 - April 30, 2012).

### **Gowen, Brian B**

T-705 pyrazine derivative treatment of highly pathogenic arenaviral infections, Funded, \$1,115,750.00, (May 1, 2009 - April 30, 2014).

(Task B01) In Vitro Assessment for Antimicrobial Activity, Funded, \$498,500.00, (October 1, 2011 - September 30, 2012).

(Task B07) Comprehensive Viruses Panel 2, Funded, \$196,522.00, (September 30, 2011 - September 29, 2012).

### **Grossl, Paul R**

Assessment of rangeland and turf grasses for abiotic stress response, Funded, \$90,000.00, (September 15, 2011 - September 14, 2016).

Pariete Wetlands Salinity/Selenium Study, Funded, \$240,000.00, (2011 - 2014).

Reclamation of Arid Land Soil, Funded, \$255,000.00, (2011 - 2014).

**Hall, Kelsey**

Farm-Chef-Fork: Establishing enhanced farm to restaurant communication and sourcing across Utah, Funded, \$29,096.00, (October 2012 - September 2014).

**Hanks, Dallas A**

FreeWays to Fuel, Funded, \$25,000.00, (March 1, 2011 - October 1, 2012).

**Hansen, Conly L**

USTAR Biofuels Initiative, Funded, \$6,500,000.00, (January 1, 2007 - December 31, 2012).

**Hatch, Royce Lynn**

Combine, Baler, and Hydraulic Training Aids, Funded, \$11,800.00, (August 31, 2012).

**Hintze, Korry J**

Effects of macro- and micronutrients on weight gain and biomarkers of metabolic health in a rodent model of the Western diet, Funded, \$15,000.00, (June 1, 2012 - April 30, 2014).

Impact of typical Western nutrition in early life on colon cancer risk, Funded, \$20,000.00, (June 1, 2012 - April 30, 2014).

Effects of consuming a bioactive yogurt on endotoxemia and markers of metabolic syndrome, Funded, (September 2012 - March 2014).

**Hipps, Lawrence E**

Annual Water Balance at the Hunter and Huntington Research Farms, Funded, \$91,610.00, (January 1, 2011 - December 31, 2012).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

**Hole, David Jay**

Developing the Next Generation of Neoclassical Plant Breeders, Funded, \$249,000.00, (January 15, 2011 - January 14, 2016).

Compost carryover effects on yield, soil quality, and profitability in dryland organic wheat production systems, Funded, \$19,192.00, (July 1, 2011 - June 30, 2012).

**Holmgren, Lyle N**

Conservation Tillage under Irrigated Crop Conditions in Utah and the Intermountain West, Funded, \$7,394.00, (July 1, 2012 - July 31, 2012).

USU Undergraduate Summer Internship, Funded, \$6,000.00, (March 2011 - July 2012).

Rangeland Team Proposal: Repeat Photography in Northern Utah, Funded, \$10,430.00, (July 1, 2011 - June 30, 2012).

**Isom, Stephen Clay**

Genetic and Epigenetic Determinants of Successful Pre- and Peri-Implantation Embryo Development, Funded, \$75,000.00, (2010 - 2015).

Apoptosis and Nuclear Reprogramming in Somatic Cell Nuclear Transfer Embryos, Funded, \$20,000.00, (2010 - 2012).

Role of the Regulatory Protein p53 in Somatic Cell Nuclear Transfer, Funded, \$20,000.00, (2010 - 2012).

Role of the regulatory protein p53 in somatic cell nuclear transfer, Funded, \$20,000.00, (May 2010 - April 2012).

**Jacobson, Astrid Rosa**

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

**Jakus, Paul Mark**

Compost carryover and cover crop cocktails for innovative soil conservation and fertility in dryland grain systems, Funded, \$69,352.00, (October 1, 2012 - October 1, 2015).

The Economic Impact and Benefits of Utah's Blue Ribbon Fisheries, Funded, \$25,000.00, (November 2011 - July 2012).

Economic Impact of USU Sponsored Programs Office, Funded, \$30,000.00, (August 2011 - May 2012).

**Johnson, Paul G.**

National tall fescue test, Funded, \$4,000.00, (2012 - 2017).

2011 National Kentucky bluegrass test, Funded, \$4,000.00, (2012 - 2016).

Insect-attacking nematodes and water conservation practices as alternatives to insecticides for billbug control in Intermountain West turfgrass, Funded, \$125,697.00, (September 2012 - August 2015).

Improved understanding and testing for salinity tolerance in cool-season turfgrasses, Funded, \$75,000.00, (February 1, 2012 - January 31, 2015).

Center for Water Efficient Landscaping, Funded, \$1,176,000.00, (December 27, 2001 - December 27, 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

NTEP Tall fescue test - 2006, Funded, \$12,500.00, (September 1, 2006 - March 1, 2012).

**Jones, Scott B**

A Novel Gradient-Based Method for Insitu Monitoring of Greenhouse Gas Emissions from Agricultural Fe, Funded, \$599,879.00, (January 1, 2010 - December 31, 2014).

## 2012

Novel streaming potential and thermal sensor techniques for monitoring water and nutrient fluxes in the vadose zone, Funded, \$314,000.00, (December 1, 2011 - November 30, 2014).

Determination of Gas Emissions from Manure Sources in Animal Feeding Operations, Funded, \$25,000.00, (June 15, 2012 - June 14, 2014).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

USDA-NIFA - Speaker Support Grant, Funded, \$5,000.00, (October 1, 2011 - February 1, 2012).

### **Julander, Justin G**

(Task A37) Mouse Models for Seasonal and Pandemic Influenza Viruses for Therapeutics (Task A37), Funded, \$854,000.00, (October 1, 2011 - September 30, 2012).

(Task B01) In Vitro Assessment for Antimicrobial Activity, Funded, \$498,500.00, (October 1, 2011 - September 30, 2012).

### **Kim, Man-Keun**

The Economic Impact and Benefits of Utah's Blue Ribbon Fisheries, Funded, \$25,000.00, (November 2011 - July 2012).

### **Kjelgren, Roger K**

Center for Water Efficient Landscaping, Funded, \$1,176,000.00, (December 27, 2001 - December 27, 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

### **Kopp, Kelly L**

Insect-attacking nematodes and water conservation practices as alternatives to insecticides for billbug control in Intermountain West turfgrass, Funded, \$125,697.00, (September 2012 - August 2015).

Water conservation in the lawn and landscape: An eXtension community of practice, Funded, \$60,000.00, (January 15, 2010 - December 31, 2012).

Center for Water Efficient Landscaping, Funded, \$1,176,000.00, (December 27, 2001 - December 27, 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

Turfgrass management in the Intermountain West: Conservation of water and nutrients, Funded, \$108,000.00, (March 27, 2001 - June 30, 2012).

### **Kulmatiski, Andrew**

Ecohydrological models to predict climate change impacts on rangeland plant species, Funded, \$20,000.00, (2012 - 2014).

Using plant-soil feedback to inform an activated carbon-based restoration program, Funded, \$150,000.00, (November 17, 2009 - November 17, 2012).

**Lawver, Rebecca Grace**

Agricultural Teacher Induction Program III, Funded, \$7,000.00, (October 1, 2011 - September 30, 2012).

New Teacher Academy IV: Provisionally Certified Teacher Program, Funded, \$7,500.00, (September 2, 2011 - September 30, 2012).

Utah Agricultural Education Plant and Soil Science Curriculum Development, Funded, \$30,000.00, (October 16, 2010 - September 30, 2012).

Living 2 Serve Grant III, Funded, \$3,000.00, (December 7, 2011 - August 31, 2012).

**Leblanc, Heidi Reese**

Utah Supplemental Nutrition Assistance Program - Education, Funded, \$959,743.00, (October 1, 2012 - September 30, 2015).

Shopping Matters - Low-income audience, Funded, \$500.00, (January 2012 - July 2012).

2011 Utah Agricultural Experiment Station Grants Program, Funded, \$19,864.00, (July 1, 2011 - June 30, 2012).

**Lee, Young-Min**

Viral components involved in porcine reproductive and respiratory syndrome virus replication, Funded, \$19,681.00, (July 1, 2012 - June 30, 2014).

Cellular components involved in Japanese encephalitis virus entry, Funded, \$316,735.00, (June 1, 2012 - May 31, 2014).

Japanese encephalitis virus: virus-host interactions, Funded, \$1,200,000.00, (September 1, 2011 - August 30, 2012).

**Lefevre, Michael**

Antioxidant and anti-inflammatory dietary supplements and response to airborne particulate matter, Funded, \$147,685.00, (September 2011 - August 2012).

**Li, Shujuan**

Water-Related Agricultural Land Use in Utah's Urban Edge., Funded, \$4,500.00, (July 2012 - June 2017).

**MacAdam, Jennifer W**

Improved organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil, Funded, \$1,019,411.00, (September 1, 2010 - August 31, 2014).

## 2012

Improved beef liveweight gain using birdsfoot trefoil pasture, Funded, \$74,906.00, (August 30, 2009 - September 30, 2012).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

### **Martini, Silvana**

Use of sonication to study the impact on physiochemical properties of concentrated milk, an impact on fouling and milk powder quality, Funded, \$118,000.00, (December 2012 - December 2014).

Modifying the Functional Properties of Lipids using High Intensity Ultrasound, Funded, \$282,290.00, (September 1, 2009 - August 31, 2012).

### **McKendrick, Scott S**

Extension Mini-Grant/Horseshoeing and Hoof Care/Beaver County, Funded, \$1,000.00, (July 2012 - September 2012).

### **McMahon, Donald J.**

Improved organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil, Funded, \$1,019,411.00, (September 1, 2010 - August 31, 2014).

Dairy Technology Innovation Laboratory, Funded, \$159,090.00, (January 1, 2012 - December 31, 2012).

Biofilm development in milk processing systems, Funded, \$19,957.86, (July 1, 2011 - June 30, 2012).

### **Miller, Bruce E**

Utah FFA Executive Secretary, Funded, \$75,407.00, (July 2011 - June 2012).

### **Miller, Rhonda L**

A Novel Gradient-Based Method for Insitu Monitoring of GHG Emissions from Intensively Used Ag Areas, Funded, \$599,879.00, (January 1, 2010 - December 31, 2014).

Using New Knowledge on grazing behavior to control medusahead in the western US, Funded, \$416,000.00, (October 2011 - September 2014).

Environmental Impact of Manure Staging Areas, Funded, \$20,000.00, (June 2012 - June 2014).

Determination of Gas Emissions from Manure Sources in Animal Feeding Operations, Funded, \$25,000.00, (June 15, 2012 - June 14, 2014).

Producer Website, Funded, \$20,000.00, (July 22, 2010 - July 21, 2012).

Practical and Cost-Effective Method of Analyzing Volatilized Ammonia for Field Use, Funded, \$500.00, (November 2011 - May 2012).

Extension Intern - AgrAbility of Utah, Funded, \$5,000.00, (May 2011 - May 2012).

Demonstrating Best Management Practices for the Protection of Water Quality on USU's Agricultural Lands, Funded, \$6,000.00, (July 1, 2010 - April 30, 2012).

AgrAbility of Utah, Funded, \$180,000.00, (April 1, 2011 - March 31, 2012).

**Morrey, John D.**

Targeting induction of cytosolic calcium buffers for treatment of viral encephalitis, Funded, \$1,420,493.00, (June 1, 2012 - June 30, 2017).

Pathogenic mechanisms of West Nile virus neurological sequelae, Funded, \$12,858.00, (July 1, 2009 - June 30, 2014).

(Task A37) Mouse Models for Seasonal and Pandemic Influenza Viruses for Therapeutics (Task A37), Funded, \$854,000.00, (October 1, 2011 - September 30, 2012).

(Task B01) In Vitro Assessment for Antimicrobial Activity, Funded, \$498,500.00, (October 1, 2011 - September 30, 2012).

(Task A30) Mouse Models for Orthopoxviruses, Funded, \$256,000.00, (September 30, 2011 - September 29, 2012).

Mouse Models for Evaluation of Influenza vaccines (NIH-NIAID-HHSN272201000039I, Task A15), Funded, \$519,578.00, (September 27, 2011 - September 26, 2012).

Integrated Research Focus Director of Viral Therapeutics Group, Funded, \$11,137.00, (May 1, 2011 - April 30, 2012).

**Munger, Ronald G**

Early Life Conditions, Survival, and Health: A Pedigree-Based Population Study., Funded, \$5,363,599.00, (May 2011 - April 2016).

Instrumental Variable Analyses and Oral Clefts, Funded, \$310,036.00, (September 1, 2010 - August 31, 2015).

Climate and livestock in Nepal, Funded, \$450,000.00, (July 1, 2012 - June 30, 2015).

Improving the Resilience of Mixed Farm Systems to Pending Climate Change in Far Western Nepal, Funded, \$449,987.00, (May 1, 2012 - April 30, 2015).

Gene-Environment Interaction Study of Oral Clefts in India, Funded, \$75,000.00, (December 2012 - December 2014).

Maternal Metabolic Disorders and the Prevention of Oral Cleft Birth Defects, Funded, \$1,649,536.00, (September 30, 2010 - September 29, 2014).

International Genetic Epidemiology of Oral Clefts (Johns Hopkins University prime, T. Beaty PI: R Munger PI of USU subcontract), Funded, \$356,347.00, (December 15, 2009 - June 30, 2014).

Past and Future Climate Assessments of Livestock Vulnerabilities in Nepal, Funded, \$80,000.00, (October 1, 2011 - September 30, 2012).

Past and Future Climate Assessments of Livestock Vulnerability in Nepal, Funded, \$79,900.00, (May 1, 2011 - April 30, 2012).

Dietary patterns, cognition, and Alzheimer's disease: the Cache County Study, Funded, \$397,056.00, (April 1, 2010 - March 31, 2012).



**Norton, Jeanette M**

Functional And Molecular Diversity In Nitrogen Cycle Enzymes Under Contrasting Agricultural Management Systems, Funded, \$498,000.00, (January 15, 2011 - June 30, 2016).

Real-Time PCR Instrument for the Quantitative Detection of Gene Targets from Soil Microbial Communities and from Plant Cells, Funded, \$9,000.00, (June 2012).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

**Nummer, Brian A**

Moldova Food Safety Association, Funded, \$4,500.00, (2012).

Emergency Food Storage, Funded, \$50,000.00, (2010 - 2012).

Western Dairy Center Food Safety Workshops, Funded, \$30,494.00, (May 1, 2012 - May 30, 2012).

**Pate, Michael L**

Effects of Agricultural Health and Safety Intervention for At-risk Populations in Utah's Dairy Industry, Funded, \$6,000.00, (August 2010 - October 2012).

Utilizing Social Narratives to Promote Diné (Navajo) Youth Agricultural Safety: Development of an online community resource for parents, Funded, \$19,991.13, (January 2012 - September 2012).

Training to reduce injuries associated with confined spaces in agriculture, Funded, \$6,762.00, (October 2011 - September 2012).

**Polejaeva, Irina**

Understanding the molecular mechanism of oocyte competence and its effect on pregnancy outcomes after somatic cell nuclear transfer in goats., Funded, \$20,000.00, (September 1, 2012 - February 28, 2014).

**Ransom, Corey Verlin**

Uinta-Wasatch-Cache National Forest invasive weed mapping and monitoring, Funded, \$44,998.00, (March 2011 - 2016).

Uinta-Wasatch-Cache National Forest invasive weed mapping and monitoring, Funded, \$60,000.00, (March 2011 - July 2016).

US fish and wildlife service strategic management of invasive plants in the national wildlife refuge system: Conducting invasive plant assessments and status determinations, Funded, \$90,000.00, (July 2011 - June 2016).

Developing decision support materials for inventory and mapping of invasive plants, Funded, \$149,999.00, (December 2010 - December 31, 2014).

Evaluation of integrated restoration methods for Cub Creek Watershed-Phase III, Funded, \$57,000.00, (August 31, 2010 - December 31, 2014).

## 2012

- BLM Grand Staircase/Escalante National Monument invasive weed mapping project, Funded, \$24,998.00, (October 15, 2009 - December 30, 2014).
- Invasive Plant Inventory at Black Canyon of Gunnison NP (BLCA) and Curecanti National Recreation Area, Funded, \$25,000.00, (October 15, 2009 - December 30, 2014).
- Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use, Funded, \$9,500.00, (November 30, 2012 - November 30, 2014).
- Developing decision support materials for inventory and mapping of invasive plants, Funded, \$87,000.00, (March 30, 2012 - September 30, 2014).
- Do weed prevention areas influence land manager practices and help prevent new infestations of invasive weed species?, Funded, \$48,292.00, (July 1, 2012 - December 31, 2012).
- Musk thistle and perennial pepperweed control with MAT28, Funded, \$2,400.00, (March 2012 - December 2012).
- Weed control in small grains, Funded, \$5,000.00, (March 2012 - December 2012).
- Grand Staircase Escalante National Monument Invasive Weed Mapping Project The Nature Conservancy, Funded, \$36,500.00, (June 25, 2012 - November 30, 2012).
- DoD Legacy Resource Management Program: Strategic Management of Invasive Species in the Northwest United States Workshop, Funded, \$2,065.00, (February 1, 2012 - August 30, 2012).
- Expanding and Improving Options for Medusahead Containment and Control, Funded, \$10,067.00, (May 1, 2012 - June 30, 2012).
- Herbicide effects on Invasive Annual Grasses and Dalmatian Toadflax, Funded, \$8,000.00, (March 2012).
- Developing Reduced Input Conventional Orchard Floor Management Options for Soil Quality, Pests, and, Funded, \$10,000.00, (March 1, 2011 - March 1, 2012).

### **Rasmussen, V Philip**

- 2012 Administration of the USDA-SARE (PDP-Extension) Program for the Western Region, Funded, \$1,065,657.00, (July 1, 2012 - June 30, 2017).
- 2012 Administration of the USDA-SARE Program for the Western Region, Funded, \$3,144,481.00, (June 15, 2012 - June 14, 2017).
- Administration of USDA-SARE PDP (Ext) Program for the Western Region, Funded, \$1,090,164.00, (2011 - 2016).
- Administration of USDA-SARE Program for the Western Region, Funded, \$3,143,466.00, (2011 - 2016).
- USU Control No. 100893; USDA Contract No. 2010-38640-20947, Funded, \$3,159,122.00, (July 15, 2010 - July 14, 2015).
- USU Control No. 100906; USDA Contract No. 2010-47001-20958, Funded, \$1,084,175.00, (July 1, 2010 - June 30, 2015).

## 2012

USU Control No. 090758; USDA Contract No. 2009-38640-19711, Funded, \$3,118,122.00, (July 1, 2009 - June 30, 2014).

USU Control No. 090757; USDA Contract No. 2009-47001-05389, Funded, \$1,083,743.00, (June 1, 2009 - June 30, 2014).

USU Control No. 080018; USDA Contract No. 2007-47001-03798, Funded, \$919,861.00, (July 1, 2007 - June 30, 2012).

USU Control No. 080019; USDA Contract No. 2007-38640-18047, Funded, \$2,653,858.00, (July 1, 2007 - June 30, 2012).

### **Reeve, Jennifer Rose**

Developing adapted varieties and optimal management practices for quinoa in diverse environments, Funded, \$1,603,653.00, (October 1, 2012 - October 1, 2016).

Functional And Molecular Diversity In Nitrogen Cycle Enzymes Under Contrasting Agricultural Management Systems, Funded, \$498,000.00, (January 15, 2011 - June 30, 2016).

Compost carryover and cover crop cocktails for innovative soil conservation and fertility in dryland grain systems, Funded, \$69,352.00, (October 1, 2012 - October 1, 2015).

Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use, Funded, \$9,500.00, (November 30, 2012 - November 30, 2014).

Improved organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil, Funded, \$1,019,411.00, (September 1, 2010 - August 31, 2014).

Compost carryover effects on yield, soil quality, and profitability in dryland organic wheat production systems, Funded, \$19,192.00, (July 1, 2011 - June 30, 2012).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

Diversification of Sustainable Farming Systems in Utah, Funded, \$50,000.00, (January 28, 2008 - June 30, 2012).

Developing Reduced Input Conventional Orchard Floor Management Options for Soil Quality, Pests, and, Funded, \$10,000.00, (March 1, 2011 - March 1, 2012).

### **Rickords, Lee F**

Veterinary Diagnostic and Infectious Disease program, Funded, \$7,200,000.00, (July 1, 2009 - June 30, 2014).

Biophysical and Biomechanics Assessment of Embryonic Stem Cell Differentiation, Funded, \$20,000.00, (July 1, 2011 - June 30, 2012).

### **Rood, Kerry A**

Artificial insemination course in southern Utah, Funded, \$1,000.00, (September 1, 2012 - September 30, 2012).

Azerbaijan Animal Health Technical Assistance, Funded, \$73,100.00, (October 1, 2011 - September 30, 2012).

Past and Future Climate Assessments of Livestock Vulnerability in Nepal, Funded, \$79,900.00, (May 1, 2011 - April 30, 2012).

**Roper, Teryl R**

Mechanical harvest capabilities for fruit crop research, Funded, \$60,692.00, (July 1, 2011 - June 30, 2012).

**Rupp, Larry A**

Water conservation in the lawn and landscape: An eXtension community of practice, Funded, \$60,000.00, (January 15, 2010 - December 31, 2012).

Center for Water Efficient Landscaping, Funded, \$1,176,000.00, (December 27, 2001 - December 27, 2012).

Development of Zauschneria as a Nursery Crop for Low-Water Landscaping, Funded, \$7,500.00, (July 1, 2011 - June 30, 2012).

Sustainable Production and Utilization of Perennial Flowering Crops in Utah, Funded, \$14,613.00, (July 2011 - June 2012).

Drought Management, Utah FY09, Funded, \$586,000.00, (July 1, 2009 - June 30, 2012).

**Sims, Charles B**

The Role of Forest Management Objectives in Mountain Pine Beetle Outbreaks, Funded, \$14,000.00, (November 1, 2009 - November 1, 2014).

Managing Interacting Disturbances to Achieve Multiple Environmental Objectives, Funded, \$43,270.00, (September 1, 2012 - August 30, 2014).

Measuring the Environmental Cost of Hypocrisy, Funded, \$19,761.00, (June 1, 2012 - June 30, 2014).

Hydrologic and Ecological Impacts of Changes in Human Water Resource Management in Response to Climate Change and Urbanization, Funded, \$149,943.00, (July 2010 - August 2012).

**Smee, Donald F**

Antiviral Studies for Drug Companies, Funded, \$75,000.00, (January 1, 2012 - December 31, 2012).

(Task A37) Mouse Models for Seasonal and Pandemic Influenza Viruses for Therapeutics (Task A37), Funded, \$854,000.00, (October 1, 2011 - September 30, 2012).

(Task B01) In Vitro Assessment for Antimicrobial Activity, Funded, \$498,500.00, (October 1, 2011 - September 30, 2012).

(Task B05) In Vitro assessment for antimicrobial activity: Respiratory panel for viruses, Funded, \$459,900.00, (October 1, 2011 - September 30, 2012).

(Task A30) Mouse Models for Orthopoxviruses, Funded, \$256,000.00, (September 30, 2011 - September 29, 2012).

## 2012

(Task B07) Comprehensive Viruses Panel 2, Funded, \$196,522.00, (September 30, 2011 - September 29, 2012).

### **Snyder, Donald Leroy**

Using New Knowledge on grazing behavior to control medusahead in the western US, Funded, \$416,000.00, (October 2011 - September 2014).

Utah Agricultural Land Values, Funded, \$30,000.00, (July 1, 2011 - June 30, 2012).

### **Spielmaker, Debra M**

E-Resources, Funded, \$85,750.00, (May 14, 2009 - August 14, 2012).

Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change, Funded, \$35,000.00, (July 1, 2011 - June 30, 2012).

Utah Foundation for Agriculture in the Classroom, Funded, \$178,560.00, (July 1, 2010 - June 30, 2012).

### **Stott, Rusty Dean**

Climate and livestock in Nepal, Funded, \$450,000.00, (July 1, 2012 - June 30, 2015).

Past and Future Climate Assessments of Livestock Vulnerabilities in Nepal, Funded, \$80,000.00, (October 1, 2011 - September 30, 2012).

### **Tarbet, Bart E**

Robust, Defined, Animal Free Medium for the Production of Vaccines, SBIR Grant 2 R44 AI092916-02, Funded, \$123,154.00, (September 29, 2012 - September 30, 2014).

(Task A37) Mouse Models for Seasonal and Pandemic Influenza Viruses for Therapeutics (Task A37), Funded, \$854,000.00, (October 1, 2011 - September 30, 2012).

(Task B05) In Vitro assessment for antimicrobial activity: Respiratory panel for viruses, Funded, \$459,900.00, (October 1, 2011 - September 30, 2012).

(Task A30) Mouse Models for Orthopoxviruses, Funded, \$256,000.00, (September 30, 2011 - September 29, 2012).

Influenza Vaccine Biomanufacturing Training Course (DHHS/BARDA IDSEP100006-01-00), Funded, \$485,866.00, (September 30, 2011 - September 29, 2012).

Mouse Models for Evaluation of Influenza vaccines (NIH-NIAID-HHSN272201000039I, Task A15), Funded, \$519,578.00, (September 27, 2011 - September 26, 2012).

### **Timmons, Michael Lee**

Timpanogos Cave National Monument, Funded, \$19,000.00, (2010 - 2014).

### **Toth, Richard E**

AES Project: Communities in Transition: Bioregional Planning in the Intermountain West, Funded, \$5,526.00, (July 1, 2011 - June 30, 2012).

**Walsh, Marie K**

Use of sonication to study the impact on physiochemical properties of concentrated milk, an impact on fouling and milk powder quality, Funded, \$118,000.00, (December 2012 - December 2014).

Investigating the use of ultrasound to improve the functional properties of whey to expand its use as a food ingredient, Funded, \$20,000.00, (July 2012 - June 2014).

**Wang, ShihYu**

Improving the Resilience of Mixed Farm Systems to Pending Climate Change in Far Western Nepal, Funded, \$449,987.00, (May 1, 2012 - April 30, 2015).

Development of a climate-weather hybrid approach for summer long-range forecast in Taiwan, Funded, (April 10, 2012 - December 31, 2012).

Development of a climate-weather hybrid approach for summer long-range forecast in Taiwan, Funded, \$32,000.00, (April 2012 - December 2012).

Understanding and Projecting Climate Impacts of the Pacific Decadal Variability on the Intermountain West, Funded, \$39,955.00, (April 1, 2010 - May 31, 2012).

Past and Future Climate Assessments of Livestock Vulnerability in Nepal, Funded, \$79,900.00, (May 1, 2011 - April 30, 2012).

**Wang, Zhongde**

Genetically knock out the Sry gene in a XY male cell line established from a Tibetan argali sheep (*Ovis ammon hodgsoni*) to produce fertile females for the conservation of this critically endangered species, Funded, \$20,000.00, (July 1, 2012 - June 30, 2014).

**Ward, Robert E**

Improved organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil, Funded, \$1,019,411.00, (September 1, 2010 - August 31, 2014).

Effects of macro- and micronutrients on weight gain and biomarkers of metabolic health in a rodent model of the Western diet, Funded, \$15,000.00, (June 1, 2012 - April 30, 2014).

Impact of typical Western nutrition in early life on colon cancer risk, Funded, \$20,000.00, (June 1, 2012 - April 30, 2014).

Effects of consuming a bioactive yogurt on endotoxemia and markers of metabolic syndrome, Funded, (September 2012 - March 2014).

Effect of dairy product consumption on cognitive performance among elderly populations of the Cache County study on Memory, Health and Aging, Funded, \$86,540.00, (April 2011 - March 2012).

**Ward, Ruby**

Risk Management Education Programs for Utah Producers 2011-2012, Funded, \$318,000.00, (October 2011 - December 2012).

Rural Tax Education (RuralTax.org) Support of “Small Farms and Beginning Farmers and Ranchers Programs at USDA-Office of Advocacy and Outreach, Funded, \$74,902.00, (September 2011 - September 2012).

Crop/Livestock Insurance Education for Nevada Agriculture 2011-2012, Funded, \$247,000.00, (October 2011 - September 2012).

Risk Management Strategies for Underserved Audiences including Specialty Crop Producers in the Davis, CA RMA Region, Funded, \$100,000.00, (September 2011 - August 2012).

Economic Impact of USU Sponsored Programs Office, Funded, \$30,000.00, (August 2011 - May 2012).

**Warnick, Brian K**

Agricultural Teacher Induction Program III, Funded, \$7,000.00, (October 1, 2011 - September 30, 2012).

New Teacher Academy IV: Provisionally Certified Teacher Program, Funded, \$7,500.00, (September 2, 2011 - September 30, 2012).

Utah Agricultural Education Plant and Soil Science Curriculum Development, Funded, \$30,000.00, (October 16, 2010 - September 30, 2012).

Living 2 Serve Grant III, Funded, \$3,000.00, (December 7, 2011 - August 31, 2012).

**Wengreen, Heidi J**

Long term effects of incentivizing fruit and vegetable consumption, Funded, \$275,399.00, (June 2011 - June 2014).

Effect of dairy product consumption on cognitive performance among elderly populations of the Cache County study on Memory, Health and Aging, Funded, \$86,540.00, (April 2011 - March 2012).

Dietary patterns, cognition, and Alzheimer’s disease: the Cache County Study, Funded, \$397,056.00, (April 1, 2010 - March 31, 2012).

**White, Kenneth L**

Veterinary Diagnostics and Infectious Disease (VDID), Funded, \$7,200,000.00, (July 1, 2009 - June 30, 2014).

Trophoblast MHC-I: Trigger for Immune-Mediated Pregnancy Failure of Cloned Bovine Fetuses, Funded, \$1,334,625.00, (December 10, 2008 - December 10, 2012).

Trophoblast MHC-I: Trigger for Immune-Mediated Rejection of Cloned Bovine Fetuses, Funded, \$1,073,296.00, (September 29, 2008 - August 31, 2012).

**Whitesides, Ralph E.**

Expanding and Improving Options for Medusahead Containment and Control, Funded, \$10,067.00, (May 1, 2012 - June 30, 2012).

**Wilson, David J**

Dairy cattle disease surveillance and descriptive and statistical analyses, Funded, \$54,140.00, (July 1, 2011 - June 30, 2016).

Comparison of milk and blood test strips and Fossomatic automated milk analysis for beta-hydroxybutyrate levels in milk of periparturient dairy cattle, Funded, \$9,860.00, (July 1, 2011 - June 30, 2012).

**Yang, Bo**

Land-use planning for farmland and water resource protection in Utah's Wasatch Front urban-rural gradient, Funded, \$4,500.00, (July 2012 - June 2017).

Water resource protection in rural-urban interface: Land use planning for Cache Valley, Utah, Funded, \$17,331.00, (July 2012 - June 2014).

Case Study Investigation, LAF Landscape Performance Series, Funded, \$6,720.00, (April 2012 - August 2012).

**Young, Allen J**

Improving nutrient utilization, feed efficiency, and lactational performance of dairy cows by supplementing DEMP or/and Optigen in typical Intermountain West dairy diets, Funded, \$62,442.00, (2012 - 2014).

Improved organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil, Funded, \$1,019,411.00, (September 1, 2010 - August 31, 2014).

Improving Nutrient Utilization, Feed Efficiency, and Lactational Performance of Dairy Cows, Funded, \$62,400.00, (July 1, 2012 - May 31, 2014).

Strategic Approaches to Develop Optimal Feeding Program of Brown Midrib Corn Silage to Lactating Dai, Funded, \$82,532.00, (January 22, 2011 - December 22, 2012).

Azerbaijan Animal Health Technical Assistance, Funded, \$73,100.00, (October 1, 2011 - September 30, 2012).

Effects of Teff Grass on the Growth of Beef Steers and Dairy Heifers, Funded, \$10,000.00, (May 6, 2011 - June 30, 2012).

Strategic Approach to Develop Functionally Bioactive Tannins to Reduce Ruminant Acidosis and Fecal Shedding of Escherichia coli by Feedlot Beef Steers, Funded, \$20,000.00, (May 15, 2010 - April 30, 2012).

**Young, Stanford A**

GBRI Seed Increase Project, Funded, \$40,000.00, (December 1, 2004 - December 17, 2012).

**Zobell, Dale**

Climate and livestock in Nepal, Funded, \$450,000.00, (July 1, 2012 - June 30, 2015).

Improving the Resilience of Mixed Farm Systems to Pending Climate Change in Far Western Nepal, Funded, \$449,987.00, (May 1, 2012 - April 30, 2015).



Fattening of Cattle in Farakala Region of Mali, Funded, \$4,000.00, (November 17, 2012 - December 2, 2012).

Artificial insemination course in southern Utah, Funded, \$1,000.00, (September 1, 2012 - September 30, 2012).

Past and Future Climate Assessments of Livestock Vulnerabilities in Nepal, Funded, \$80,000.00, (October 1, 2011 - September 30, 2012).

Effects of Teff Grass on the Growth of Beef Steers and Dairy Heifers, Funded, \$10,000.00, (May 6, 2011 - June 30, 2012).

Past and Future Climate Assessments of Livestock Vulnerability in Nepal, Funded, \$79,900.00, (May 1, 2011 - April 30, 2012).

Strategic Approach to Develop Functionally Bioactive Tannins to Reduce Ruminant Acidosis and Fecal Shedding of Escherichia coli by Feedlot Beef Steers, Funded, \$20,000.00, (May 15, 2010 - April 30, 2012).

## **Presentations and Posters**

### **Allen, Karin E**

SNAP-Ed Improves Food Safety Practices Through Nutrition Education, 2012.

Tools to Assist Food Entrepreneurs, November 28, 2012.

Impacts of Community Supported Agriculture Program Participation on Consumer Food Purchases and Dietary Choice, October 2012.

"SNAP-Ed Improves Food Safety Practices Through Nutrition Education, July 14, 2012.

Effect of power ultrasound (US) treated lipid on physicochemical qualities of baked products, May 2012.

Use of iron chelators to control lipid oxidation and color loss in red meats, May 2, 2012.

Effect of storage in presence of iron on pH, color, microbial load and lipid oxidation of chicken, April 5, 2012.

Food Sense and Tier II Certification, March 2012.

"SNAP-Ed Improves Food Safety Practices through Nutrition Education, March 27, 2012.

USU Incubator Kitchen: A model for food business development, March 8, 2012.

"SNAP-Ed Improves Food Safety Practices through Nutrition Education, March 7, 2012.

### **Anderson, Janet B**

Parent Nutrition Education And The Influence On Family Lifestyle Behavior Changes, 2012.

Preschool Nutrition Education and Influences on Food Neophobia, 2012.

Parent Nutrition Education and the Influence on Family Lifestyle Behavior Changes, March 2012.

Preschool Nutrition Education and Influences on Food Neophobia, March 2012.

Preschool Nutrition Education and Influences on Food Neophobia, March 2012.

Parent Nutrition Education and the Influence on Family Lifestyle Behavior Changes, March 2012.

Parent Nutrition Education and the Influence on Family Lifestyle Behavior Changes, March 2012.

Preschool Nutrition Education and Influences on Food Neophobia, March 2012.

**Bailey, Deevon**

A Study of Economies of Scale for Farmer Cooperatives in China's Shanxi Province, June 10, 2012.

**Baldwin, Thomas J**

Dermatitis, cellulitis and myositis due to *Serratia marcescens* in a cat, October 19, 2012.

**Barnard, Dale**

T-705 (Favipriavir), a novel viral RNA polymerase inhibitor, November 2012.

The utility of plethysmography for measuring lung function in mice infected with HPAIV for use in antiviral or vaccine studies, April 2012.

**Benninghoff, Abby**

Green tea prevents aberrant crypt foci (ACF) in mice fed the total Western diet (TWD) but not the AIN93G diet, November 2012.

The total Western diet (TWD) increases azoxymethane induced aberrant crypt foci (ACF) compared to the AIN93G diet, August 19, 2012.

Transplacental chemoprevention by dietary indole-3-carbinol (I3C) in a mouse model of T-cell lymphoblastic lymphoma/leukemia (T-ALL), August 19, 2012.

Growth, viability and productivity studies utilizing recombinant CHO cells in Stirred-tank bioreactors: A comparative study between the pitch-blade and the packed-bed bioreactor systems, April 2, 2012.

Analysis of genome-wide DNA methylation in CCRF-CEM cells confirms hypermethylation at reported epigenetic markers of T-cell lymphoblastic leukemia and identifies novel therapeutic targets with reduced methylation upon treatment with dietary indoles, March 31, 2012.

Anticancer effects of 3,3'-diindolylmethane (DIM) in multiple T-cell acute lymphoblastic leukemia/lymphoma (T-ALL) cell lines, March 31, 2012.

**Bentley, Marion Taylor**

Utah Business Outreach Tools and Resources, November 2012.

Grappling With ROI While Growing Jobs in the Local Economy, May 2012.

**Berrett, Jared V**

Robotics in the Classroom, February 2012.

**Bevan, Stacy Lyn**

Nutrition and MS, November 8, 2012.

Food Systems in Food Literacy, October 2012.

The Key to Nutritious Artisan Breads and Quick Breads, July 2012.

Artisan Breads, June 14, 2012.

Become a "Knife Enthusiast", June 13, 2012.

**Black, Brent L**

Developing a High Density Tart Cherry Production System Suited to Canopy-shake Harvest,  
December 2, 2012.

European earwig, *Forficula auricularia* L. (Dermaptera: Forficulidae) responses to understory treatments  
in organic and conventional peach orchards of northern Utah, November 11, 2012.

Organic orchard floor management impacts soil nitrogen cycling and tree nitrogen uptake, October 21,  
2012.

Approaches for establishing organic stone-fruit orchards in Utah and the Intermountain west., July 31,  
2012.

Involving the Public in Cultivar Evaluation Research, July 17, 2012.

Developing organic stone-fruit production options for Utah and the Intermountain west., June 18, 2012.

European earwig (*Forficula auricularia*) responses to understory treatments in organic and conventional  
peach orchards of northern Utah, March 25, 2012.

Involving the Public in Cultivar Evaluation Research, March 7, 2012.

Involving the Public in Cultivar Evaluation Research, February 23, 2012.

P and K Fertility in Tart Cherries, January 30, 2012.

**Boettinger, Janis L**

Digital Soil Mapping: The Time is Now, April 2012.

**Bosworth, Ryan C**

What Sort of School Sorts Students?, June 29, 2012.

Cheap Talk and Preference Elicitation for Divisible Public Goods, June 20, 2012.

Measuring the Values of Plastic and Reusable Grocery Bags, April 2, 2012.

**Bugbee, Bruce G**

Volatilization of trichloroethylene from trees and soil: measurement and scaling approaches, September 2012.

Volatilization of TCE from trees and soil: measurement and scaling approaches, March 2012.

**Bunch, Thomas David**

Germ Cell and embryo development and manipulation for the improvement of livestock, January 6, 2012.

**Caplan, Arthur Josef**

Conservation Clubs, October 7, 2012.

Measuring the Environmental Cost of Hypocrisy, August 7, 2012.

Measuring the Values of Plastic and Reusable Grocery Bags, April 2, 2012.

Compendium of My Research, 2011, September 2011.

Economics of Climate Change, April 2011.

**Cardon, Grant E**

Maximizing forage production with grass-legume mixtures of tall fescue, orchardgrass, meadow brome, alfalfa, birdsfoot trefoil, and cicer milkvetch in three ratios, 2012.

Teff Forage Yield and Quality As Influenced by Seeding Rate, Nitrogen Fertilization, and Harvest Timing, 2012.

Seasonal Correlations between Irrigation-Mobilized Salts and Selenium in Utah's Pariette Watershed Soils, Uintah Basin, UT., December 3, 2012.

P and K Fertility in Tart Cherries, January 30, 2012.

**Carman, John G**

Gene regulation during sexual and apomictic development in immature ovules of *Boechera* (Brassicaceae) and sorghum, December 18, 2012.

Gene regulation during sexual and apomictic development in immature ovules of *Boechera* (Brassicaceae) and sorghum, December 17, 2012.

Apomixis for crop improvement: insights from expression profiling of sexual and apomictic *Boechera* and aposporous and non-aposporous sorghum, December 15, 2012.

Apomixis for crop improvement: insight from studies of apomixis in other kingdoms, December 14, 2012.

Ovule transcriptomes of weakly aposporous and non-aposporous sorghum sibs, January 17, 2012.

Updated distributions of apomictic and polysporic species in angiosperms, January 2011.

**Chesley, Randall**

Training Tomorrow's Technician, November 2012.

**Christensen, Keith M**

Building Inclusive Communities through Play, August 7, 2012.

The Other Olmstead; Socially Equitable Community Planning., 2011.

The Relationship between Poverty, Community Land Use, and Older Adults' Opportunities for Social Integration, 2011.

**Christofferson, Debra Claire**

Evaluation Presentations, October 2012.

Open Space - Group participation in policy management, October 2012.

Program Policy/Q&A, October 2012.

Food \$ense Evidence Based Progamming, April 2012.

ASSESSMENT OF NEWLY IMPLEMENTED ONLINE EDUCATION PROGRAM, 2012.

Integrating Nutrition Education Classes into English as Second Language Classes for Recently Resettled Refugees, 2012.

Online Nutrition Education in Snap-Ed Participants, 2012.

Parent Nutrition Education And The Influence On Family Lifestyle Behavior Changes, 2012.

Preschool Nutrition Education and Influences on Food Neophobia, 2012.

SNAP--ED PARTICIPANTS INCREASE FRUIT AND VEGETABLE CONSUMPTION, 2012.

USU Food \$ense, January 2012.

USU Food \$ense, January 2012.

SNAP-Ed Improves Food Safety Practices Through Nutrition Education, 2012.

"SNAP-Ed Improves Food Safety Practices Through Nutrition Education, July 14, 2012.

SNAP-Ed Participants Increase Fruit and Vegetable Consumption, July 14, 2012.

online nutrition education in SNAP-Ed participants, April 11, 2012.

Online Nutrition Education in SNAP-Ed Participants, March 2012.

Assessment of Newly Implemented Online Education Program, March 2012.

Parent Nutriton Education and the Influence on Family Lifestyle Behavior Changes, March 2012.

Preschool Nutrition Education and Influences on Food Neophobia, March 2012.

Assessment of Newly Implemented Online Education Program, March 2012.

Assessment of Newly Implemented Online Education Program, March 2012.

Online Nutrition Education in SNAP-Ed Participants, March 2012.

Online Nutrition Education in SNAP-Ed Participants, March 2012.

Preschool Nutrition Education and Influences on Food Neophobia, March 2012.

Parent Nutrition Education and the Influence on Family Lifestyle Behavior Changes, March 2012.

Parent Nutrition Education and the Influence on Family Lifestyle Behavior Changes, March 2012.

Preschool Nutrition Education and Influences on Food Neophobia, March 2012.

SNAP-Ed Participants Increase Fruit and Vegetable Consumption, March 2012.

Food Sense and Tier II Certification, March 2012.

Food Sense Updates, March 2012.

"SNAP-Ed Improves Food Safety Practices through Nutrition Education, March 27, 2012.

SNAP-Ed Participants Increase Fruit and Vegetable Consumption, March 27, 2012.

"SNAP-Ed Improves Food Safety Practices through Nutrition Education, March 7, 2012.

SNAP-Ed Participants Increase Fruit and Vegetable Consumption, March 7, 2012.

Tier II - Logic Model/Proposal/Request for Funding, February 2012.

### **Cornforth, Daren P**

Chemical characterization of grass- and grain-fed beef related to meat quality and flavor attributes, March 31, 2011.

Cured meat color chemistry, color stabilization, diagnosis of color problems, and ingredient effects, August 14, 2012.

Milk minerals as antioxidants in comminuted meat products, June 6, 2012.

Attracting students in Food Science: What is the present recipe?, June 5, 2012.

Comparison of type 1 and type 2 antioxidants (radical quenchers or chelators) on stability of myoglobin and meat lipids, June 4, 2012.

Effect of storage in presence of trona on pH, color, microbial load and lipid oxidation of chicken, April 5, 2012.

### **Coulombe, Roger A**

Dietary Supplements: The Legal Landscape in the USA, December 19, 2012.

Safety Issues with Herbal Supplements: The Dirty Dozen, December 19, 2012.

Safety of Vitamin and Mineral Supplementation: Current Epidemiology, December 18, 2012.

Dietary Supplements: Is Natural Necessarily Safe?, December 17, 2012.

## 2012

Grant writing: how to write a competitive application to a funding agency, August 13, 2012.

Practical advice from the reviewer's point of view - What you can learn from the Review Process, August 15, 2012.

Critical elements of persuasive proposals: Hypothesis, Aims, Design, and Methods, August 14, 2012.

Why grants: Importance of grants as an engine of science and career, August 13, 2012.

Genomics of Disease Resistance: Walk on the Wild Side, April 30, 2012.

Systems Biology and Discovering Disease Resistance in Wild Species, April 12, 2012.

Molecular Determinants of Cancer Resistance: Give 'em the Bird!, March 29, 2012.

Effects of Cache Valley Particulate Air Pollution on Pulmonary Function and Disease Biomarkers in Human Volunteers: A Preliminary Study, March 10, 2012.

Expression and functional characterization of hepatic mu-class glutathione S-transferases from turkeys (*Meleagris gallopavo*) and their role in detoxification of Aflatoxin B<sub>1</sub>, March 10, 2012.

Spleen Transcriptome Response to Aflatoxin in the Domestic Turkey, January 17, 2012.

### **Creech, Joseph Earl**

Forage production with grass-legume mixes in three ratios with tall fescue, orchardgrass, meadow brome, alfalfa, birdsfoot trefoil, and cicer milkvetch, 2012.

Soybeans for forage production in the West, 2012.

Maximizing forage production with grass-legume mixtures of tall fescue, orchardgrass, meadow brome, alfalfa, birdsfoot trefoil, and cicer milkvetch in three ratios, 2012.

Safflower growth and yield response to seeding rate and row spacing, 2012.

Teff Forage Yield and Quality As Influenced by Seeding Rate, Nitrogen Fertilization, and Harvest Timing, 2012.

Timing of low rates of glyphosate for control of downy brome in rangeland, 2012.

Factors influencing the germination of forage kochia accessions, March 12, 2012.

Safflower Research Trials in Northern Utah, February 1, 2012.

### **Curtis, Kynda**

Impacts of Community Supported Agriculture Program Participation on Consumer Food Purchases and Dietary Choice, October 2012.

Analysis of Consumer Motivations for Attending Farmers' Markets: Who Buys Fresh?, June 2012.

Western Extension Marketing Committee: Regional Model for Outreach Programming to Beginning, Small, and Underserved Farmers and Ranchers, March 2012.

### **Drost, Daniel T**

Utah State Report, December 14, 2012.

Does Alternative Crop Management Practices Impact Thrips, IYSV and Onion Productivity?, December 12, 2012.

High Time For High Tunnels: Making Small Farms Highly Profitable, September 18, 2012.

Asparagus Root Growth Dynamics, August 6, 2012.

Impact of Water and Nutrients on Asparagus Growth and Carbohydrates, August 6, 2012.

Effects of local landscape on population dynamics of onion thrips and iris yellow spot virus, March 25, 2012.

Utah onion ipmPIPE project: thrips monitoring in the onion landscape, February 14, 2012.

**Eun, Jong-Su**

Emerging opportunities and challenges to mitigate greenhouse gas emissions by ruminants through plant secondary compounds, 2012.

Ruminal metabolism in continuous culture fermentation when administrating high concentration of inorganic selenium in mixed cultures of ruminal microorganisms, 2012.

Nutritional Overview of Beef Grazing Project: Impacts of Grazing Beef Steers on Production and Carcass and Meat Quality, 2012.

Utah Annual Report, 2012.

Nutrition and Management to Optimize Performance, Carcass Value, and Environmental Compatibility, 2012.

**Feuz, Dillon M**

Forecasting the Price of Cull Cows, June 20, 2012.

Western Extension Marketing Committee: Regional Model for Outreach Programming to Beginning, Small, and Underserved Farmers and Ranchers, March 2012.

Wheat Outlook, February 23, 2012.

**Frame, David D**

Overview of the US Poultry Industry, November 29, 2012.

Overview of salmonella Drag Swab and AI Surveillance at the Central Utah Branch Veterinary Diagnostic Laboratory, October 3, 2012.

Parasitology and Litter/Feces Flotation wet lab, September 7, 2012.

Introduction to Raising Chickens, August 17, 2012.

Backyard Chicken Care, July 13, 2012.

Backyard Turkey Care, July 13, 2012.



Turkey Necropsy Workshop, May 9, 2012.

Basic Backyard Poultry Management, March 22, 2012.

Poultry Care and Husbandry, March 10, 2012.

Basic Backyard Poultry Management, February 29, 2012.

Poultry Care and Husbandry, February 24, 2012.

Basic Backyard Poultry Management, February 23, 2012.

Basic Backyard Poultry Management, February 16, 2012.

Parasitology wet lab, February 7, 2012.

**Garner, Dennis R**

Photoshop: Picture Perfect, March 2012.

PhotoShop: Webinar of Best Tips and Tricks, November 2011.

Office 2010, April 2010.

Digital Cameras and PhotoShop, April 2009.

The Future is Here: An Office 2010 Overview, April 3, 2012.

**George, Benjamin Hollis**

Take me there: Situated cognition and virtual tours in landscape architecture history curricula, March 30, 2012.

Visualization technologies for teaching plant identification, March 31, 2011.

**Gillies, Robert**

Trends and Variability of Pineapple Express Events Depicted by Seven Reanalysis Datasets, October 22, 2012.

Yearly Phase Delay of Winter Intraseasonal Mode in Western North America and its Link with the NAO, October 22, 2012.

Harnessing U.S. University Partnerships For Agriculture, Food Security, And Nutrition, October 17, 2012.

Impending winter drought in western Nepal, October 17, 2012.

Changing Monsoon Dynamics and Extremes: Example of the Pakistan Flood, August 13, 2012.

Climate Vulnerability of Nepal and Links to Decadal Variability and Teleconnection, August 13, 2012.

Weather in the Odyssey: What It Is, How It Functions, and Why It Occurs—Part I, May 31, 2012.

Depiction of the Trend and Variability of Pineapple Express Events by Seven Global Reanalysis Datasets, May 7, 2012.

Decadal and Paleo-climate Research Leading to Longer-term Prediction for the Great Salt Lake Hydrological Cycle, April 3, 2012.

Depiction of the Trend and Variability of Pineapple Express Events by Seven Global Reanalysis Datasets, April 3, 2012.

Prejection of Drought Conditions in the Colorado River Basin: A Study Based on the NARCCAP Regional Climate Models, April 3, 2012.

Utah Freeze Date Prediction Utilizing Weather Station Climatology and the Climate Forecast System Model, April 3, 2012.

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