

Friday, January 04, 2019

Colorado Agricultural Experiment Station Active Research Projects

| Project Number | Title | Multi-State No. | Principal Investigator | Department Name | Acct. Dept | CRIS Number | Budget Source | Begin - Term Date | Note |
|------------------|--|-----------------|------------------------|---|------------|-------------|---------------|-----------------------|-------------------|
| COL00201B | Management and Utilization of Plant Genetic Resources and Associated Information | | | | | | | | |
| | W006 | | Byrne, PF | Soil & Crop Sciences | 1170 | 1011374 | MS Hatch | 11/01/2016 09/30/2021 | |
| COL00202 | Integrated Onion Pest and Disease Management | | | | | | | | |
| | W3008 | | Uchanski, M | Horticulture & Landscape Arch | 1173 | 1014477 | MS Hatch | 11/08/2017 09/30/2022 | |
| COL00205A | Specialty Crops and Food Systems: Exploring Markets, Supply Chains and Policy Dimensions | | | | | | | | |
| | S1067 | | Thilmany, DD | Agric & Resource Economics | 1172 | 1008746 | MS Hatch | 10/22/2015 09/30/2020 | |
| COL00207C | Breeding Common Bean (<i>Phaseolus vulgaris</i> L.) for Resistance to Abiotic and Biotic Stresses, Sustainable Production, and Enhanced Nutritional Value | | | | | | | | |
| | W3150 | | Brick, MA | Soil & Crop Sciences | 1170 | 1008006 | MS Hatch | 10/01/2015 06/30/2018 | <i>Terminated</i> |
| | 207X2 | | Thompson, H | Horticulture and Landscape Architecture | 1173 | | | | |
| COL00210C | Soil, Water, and Environmental Physics Across Scales | | | | | | | | |
| | W3188 | | Butters, G | Soil & Crop Sciences | 1170 | 1005609 | MS Hatch | 10/01/2014 09/30/2019 | |
| COL00211C | Management and Policy Challenges in a Water-Scarce World | | | | | | | | |
| | W3190 | | Goemans, CG | Agric & Resource Economics | 1172 | 1004960 | MS Hatch | 10/01/2014 09/30/2019 | |
| COL00215D | Enhancing Rural Economic Opportunities, Community Resilience, and Entrepreneurship | | | | | | | | |
| | NE1749 | | Thilmany, D | Agric & Resource Economics | 1172 | 1016283 | MS Hatch | 07/01/2018 09/30/2022 | <i>New</i> |
| COL00216A | Enhancing Microbial Food Safety by Risk Analysis | | | | | | | | |
| | S1056 | | Yang, H | Animal Sciences | 1171 | 1001901 | MS Hatch | 10/30/2013 09/30/2018 | <i>Terminated</i> |
| COL00216B | Enhancing Microbial Food Safety by Risk Analysis | | | | | | | | |
| | S1077 | | Yang, H | Animal Sciences | 1171 | 1018217 | MS Hatch | 11/14/2018 09/30/2023 | <i>New</i> |
| COL00217 | Multistate Agricultural Literacy Research | | | | | | | | |
| | W2006 | | Martin, M | Agric & Resource Economics | 1172 | 1004843 | MS Hatch | 10/01/2014 09/30/2019 | |
| COL00218A | Water Management and Quality for Ornamental Crop Production and Health | | | | | | | | |
| | NC1186 | | Bauerle, W | Horticulture & Landscape Arch | 1173 | 1008405 | MS Hatch | 10/01/2015 09/30/2020 | |
| COL00220C | Reproductive Performance in Domestic Ruminants | | | | | | | | |
| | W3112 | | Hansen, T | Biomedical Sciences | 1680 | 1011648 | MS Hatch | 11/21/2016 09/30/2021 | |
| COL00222C | Biological Control in Pest Management Systems of Plants | | | | | | | | |
| | W4185 | | Hufbauer, R | Bioagric Sciences & Pest Mgmt | 1177 | 1014792 | MS Hatch | 11/27/2017 09/30/2022 | |
| COL00224A | Personal Protective Technologies for Current and Emerging Occupational and Environmental Hazards | | | | | | | | |
| | NC170 | | Park, J | Design & Merchandising | 1574 | 1014572 | MS Hatch | 10/24/2017 09/30/2022 | |
| COL00226A | National Animal Genome Research Program | | | | | | | | |
| | NRSP8 | | Bruemmer, JE | Animal Sciences | 1171 | 1002276 | MS Hatch | 01/06/2014 09/30/2018 | <i>Terminated</i> |
| COL00226B | National Animal Genome Research Program | | | | | | | | |
| | NRSP8 | | Bruemmer, J | Animal Sciences | 1171 | 1018190 | MS Hatch | 11/08/2018 09/30/2023 | <i>New</i> |
| COL00229 | EFNEP Related Research, Program Evaluation and Outreach | | | | | | | | |
| | NC2169 | | Baker, S | Food Science & Human Nutrition | 1571 | 1001902 | MS Hatch | 10/31/2013 09/30/2018 | <i>Terminated</i> |
| COL00229A | EFNEP Related Research, Program Evaluation and Outreach | | | | | | | | |
| | NC3169 | | Baker, S | Food Science & Human Nutrition | 1571 | 1018030 | MS Hatch | 11/05/2018 09/30/2022 | <i>New</i> |

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| COL00230 | Integrated Approach to Enhance Efficiency of Feed Utilization in Beef Production Systems | | | | | | | | |
| | W2010 | Ahola, J | Animal Sciences | | 1171 | 1001951 | MS Hatch | 11/07/2013 09/30/2018 | <i>Terminated</i> |
| COL00232 | The importance of U.S. food and agricultural trade in a new global market environment | | | | | | | | |
| | S1062 | Countryman, A | Agric & Resource Economics | | 1172 | 1002351 | MS Hatch | 01/15/2014 09/30/2018 | <i>Terminated</i> |
| COL00232A | U.S. Agricultural Trade and Policy in a Dynamic Global Market Environment | | | | | | | | |
| | S1072 | Countryman, A | Agric & Resource Economics | | 1172 | 1016945 | MS Hatch | 10/01/2018 09/30/2023 | <i>New</i> |
| COL00233A | Renewing an Agriculture of the Middle: Value Chain Design, Policy Approaches, Environmental and Social Impacts | | | | | | | | |
| | NC1198 | Jablonski, R | Agric & Resource Economics | | 1172 | 1014435 | MS Hatch | 10/04/2018 09/30/2022 | <i>New</i> |
| COL00238D | Costs and Benefits of Natural Resources on Public and Private Lands: Management, Economic Valuation, and Integrated Decision-Making | | | | | | | | |
| | W4133 | Manning, D | Agric & Resource Economics | | 1172 | 1014436 | MS Hatch | 10/01/2017 09/30/2022 | |
| COL00240 | Industrial Hemp Production, Processing, and Marketing in the U.S. | | | | | | | | |
| | S1084 | McKay, J | Bioagric Sciences & Pest Mgmt | | 1177 | 1018158 | MS Hatch | 12/01/2018 09/30/2023 | <i>New</i> |
| COL00241 | Enhancing Management, Production, and Sustainability of Grazing Ruminants in Extensive Landscapes | | | | | | | | |
| | W2012 | Ahola, J | Animal Sciences | | 1171 | 1018414 | MS Hatch | 11/20/2018 09/30/2019 | <i>New-Pending NIFA</i> |
| COL00271D | Beneficial and Adverse Effects of Natural Chemicals on Human Health and Food Safety | | | | | | | | |
| | W4122 | Weir, T | Food Science & Human Nutrition | | 1571 | 1014571 | MS Hatch | 12/12/2017 09/30/2022 | |
| COL00276A | Enhancing the Competitiveness and Value of U.S. Beef | | | | | | | | |
| | W4177 | Narayanan Nair, M | Animal Sciences | | 1171 | 1014701 | MS Hatch | 10/26/2017 09/30/2022 | |
| COL00280A | Multi-state Coordinated Evaluation of Winegrape Cultivars and Clones | | | | | | | | |
| | NE1720 | Caspari, H | Western Colorado Research Center | | 3046 | 1014339 | MS Hatch | 10/01/2017 09/30/2022 | |
| COL00282B | Scaling Microirrigation Technologies to Address the Global Water Challenge | | | | | | | | |
| | W3128 | Bartolo, ME | Arkansas Valley Research Center | | 3040 | 1004751 | MS Hatch | 10/01/2014 09/30/2019 | |
| COL00285B | Improving Economic and Environmental Sustainability in Tree-Fruit Production Through Changes in Rootstock Use | | | | | | | | |
| | NC140 | Minas, I | Western Colorado Research Center | | 3046 | 1014340 | MS Hatch | 10/01/2017 09/30/2022 | |
| COL00292C | Beneficial Reuse of Residuals and Reclaimed Water: Impact on Soil Ecosystem and Human Health (formerly W2170) | | | | | | | | |
| | W3170 | Barbarick, KA | Soil & Crop Sciences | | 1170 | 1004834 | MS Hatch | 10/01/2014 09/30/2019 | |
| COL00293C | Germ Cell and Embryo Development and Manipulation for the Improvement of Livestock | | | | | | | | |
| | W3171 | Winger, Q | Biomedical Sciences | | 1680 | 1004816 | MS Hatch | 10/01/2014 09/30/2019 | |
| COL00294C | Impacts of Stress Factors on Performance, Health, and Well-Being of Farm Animals (from W2173) | | | | | | | | |
| | W3173 | Engle, TE | Animal Sciences | | 1171 | 1011277 | MS Hatch | 10/01/2016 09/30/2021 | |
| COL00299 | Regional Research Coordination, Western Region | | | | | | | | |
| | W106 | Kelly, E | Agric Experiment Station | | 3001 | 0024381 | MS Hatch | 10/01/1999 09/30/2029 | |
| COL00502A | Strategies for Incorporating Climate Change into U.S. Forest Service Decision-Making and NEPA Processes | | | | | | | | |
| | | Schultz, CA | Forest Rangeland Watershed Stwrd | | 1472 | 1006419 | McStennis | 07/01/2015 06/30/2018 | <i>Terminated</i> |
| COL00504A | Valuing Fuel Treatment Options in Colorado when Smoke Emissions are of Concern and Need to be Mitigated | | | | | | | | |
| | | Rideout, DB | Forest Rangeland Watershed Stwrd | | 1472 | 1006420 | McStennis | 07/23/2015 06/30/2018 | <i>Terminated</i> |
| COL00506 | Longevity of Fuels Treatment Benefits on Colorados Front Range | | | | | | | | |

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| | | | Ex, S | Forest Rangeland Watershed Stwrd | 1472 | 1006421 | McStennis | 07/28/2015 | 06/30/2018 | <i>Terminated</i> |
| COL00507 | Examining the influence of wildland fire suppression resource deployment on the distribution of large fire risk in Colorado | | | | | | | | | |
| | | | Wei, Y | Forest Rangeland Watershed Stwrd | 1472 | 1006422 | McStennis | 07/01/2015 | 06/30/2018 | <i>Terminated</i> |
| COL00508 | Identifying reservoirs and insect vectors of pine wilt disease in the Front Range | | | | | | | | | |
| | | | Davis, T | Forest Rangeland Watershed Stwrd | 1472 | 1016206 | McStennis | 07/01/2018 | 06/30/2020 | <i>New</i> |
| COL00509 | Tree regeneration niches and microsites are the keys to maintaining resilience of Colorado forests to disturbance | | | | | | | | | |
| | | | Ex, S | Forest Rangeland Watershed Stwrd | 1472 | 1016208 | McStennis | 07/01/2018 | 06/30/2020 | <i>New</i> |
| COL00511 | Evaluation of UAV-Based Remote Sensing Techniques for Characterizing Individual Tree Parameters | | | | | | | | | |
| | | | Tinkham, W | Forest Rangeland Watershed Stwrd | 1472 | 1016209 | McStennis | 07/01/2018 | 06/30/2020 | <i>New</i> |
| COL00606A | Interactions between Nutrition and Management of Feed Ingredients and Diets for Feedlot Cattle | | | | | | | | | |
| | | | Wagner, JJ | Animal Sciences | 1171 | 1004813 | Hatch | 09/19/2014 | 06/30/2019 | |
| COL00607A | Genetic Improvement in Beef Management Systems | | | | | | | | | |
| | | | Enns, RM | Animal Sciences | 1171 | 1006304 | Hatch | 07/01/2015 | 06/30/2020 | |
| COL00608A | Management of Forages in Colorado for Improved Yield and Quality | | | | | | | | | |
| | | | Brummer, JE | Soil & Crop Sciences | 1170 | 1010156 | Hatch | 07/01/2016 | 06/30/2021 | |
| COL00609B | Precision Agriculture and Big-Data to Enhance Production; Nitrogen and Water Use Efficiency of Irrigated Cropping Systems | | | | | | | | | |
| | | | Khosla, R | Soil & Crop Sciences | 1170 | 1012940 | Hatch | 07/01/2017 | 06/30/2022 | |
| COL00612A | Determining the consumptive water use of crops in Colorado for efficient irrigation | | | | | | | | | |
| | | | Andales, AA | Soil & Crop Sciences | 1170 | 1003270 | Hatch | 07/01/2014 | 06/30/2019 | |
| COL00615A | Research and Education to Enhance the Sustainability of Farming in Southwestern Colorado | | | | | | | | | |
| | | | Berrada, A | Southwestern Colorado Res Center | 3050 | 1006308 | Hatch | 07/01/2015 | 06/30/2020 | |
| COL00618B | Responding to critical issues involving insects associated with Horticultural Crops and Landscape Plants in Colorado | | | | | | | | | |
| | | | Cranshaw, W | Bioagric Sciences & Pest Mgmt | 1177 | 1009893 | Hatch | 07/01/2016 | 06/30/2021 | |
| COL00622A | Insect pest management with natural products | | | | | | | | | |
| | | | Bjostad, L | Bioagric Sciences & Pest Mgmt | 1177 | 1000678 | Hatch | 08/16/2013 | 06/30/2018 | <i>Terminated</i> |
| COL00623A | Integrated Weed Management Strategies for Aquatic Plants and Winter Annual Grasses | | | | | | | | | |
| | | | Nissen, SJ | Bioagric Sciences & Pest Mgmt | 1177 | 1006596 | Hatch | 07/01/2015 | 06/30/2020 | |
| COL00629A | Regulation of pre/postnatal Growth by Hormones and Growth Factors | | | | | | | | | |
| | | | Han, H | Animal Sciences | 1171 | 1003402 | Hatch | 07/15/2014 | 06/30/2019 | |
| COL00645A | Support and Enhancement of the C. P. Gillette Museum of Arthropod Diversity | | | | | | | | | |
| | | | Kondratieff, BC | Bioagric Sciences & Pest Mgmt | 1177 | 1006597 | Hatch | 07/01/2015 | 06/30/2020 | |
| COL00646A | Biology and management of arthropod pests of winter wheat in Colorado | | | | | | | | | |
| | | | Peairs, FB | Bioagric Sciences & Pest Mgmt | 1177 | 1006599 | Hatch | 07/01/2015 | 06/30/2020 | |
| COL00647A | Functional Global Weed Genomics and Sustainable Weed Management for Colorado | | | | | | | | | |
| | | | Westra, P | Bioagric Sciences & Pest Mgmt | 1177 | 1010362 | Hatch | 08/18/2016 | 06/30/2021 | |
| COL00654A | Sustainable Farming Practices, Crop Management and Sorghum Improvement | | | | | | | | | |
| | | | Larson, KJ | Plainsman Research Center | 3044 | 1006327 | Hatch | 07/01/2015 | 06/30/2020 | |

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| COL00658A | Water Reuse, Saltgrass Selection, and Carbon Footprint of Urban Turfgrass Systems | | | | | | | | |
| | | | Qian, YL | Horticulture & Landscape Arch | 1173 | 1009722 | Hatch | 07/01/2016 06/30/2021 | |
| COL00670A | Improved sustainability of U.S. beef cattle production | | | | | | | | |
| | | | Archibeque, S | Animal Sciences | 1171 | 1003445 | Hatch | 07/01/2014 06/30/2019 | |
| COL00679 | Nutrient Reductions in Irrigated Agricultural Watersheds: Intentional Planning, Implementation, and Maintenance | | | | | | | | |
| | | | Arabi, M | Civil & Environmental Engineering | 1372 | 1006424 | Hatch | 07/01/2015 06/30/2019 | |
| COL00680B | Evolutionary Ecology of Range Expansions, Pests, and Biological Control | | | | | | | | |
| | | | Hufbauer, R | Bioagric Sciences & Pest Mgmt | 1177 | 1012868 | Hatch | 07/01/2017 06/30/2022 | |
| COL00681A | National Genetic Evaluation of Beef Cattle | | | | | | | | |
| | | | Enns, RM | Animal Sciences | 1171 | 1010007 | Hatch | 07/01/2016 06/30/2021 | |
| COL00682 | Assessment and Management of Saline Irrigation-Return Flows in Areas Affected by Tile Drain Networks | | | | | | | | |
| | | | Bailey, R | Civil & Environmental Engineering | 1372 | 1006486 | Hatch | 07/01/2015 06/30/2018 | <i>Terminated</i> |
| COL00682A | Modeling and Management of Salinity in Irrigated Regions Affected by Tile Drain Networks | | | | | | | | |
| | | | Bailey, R | Civil & Environmental Engineering | 1372 | 1015936 | Hatch | 07/01/2018 09/30/2020 | <i>New</i> |
| COL00683 | Demonstration of Advanced Technologies for Treating Frac Flowback and Produced Water from Shale Oil and Gas Production for Agriculture Irrigation in Northeast Colorado: Addressing the Intersection of Energy, Water, and Food | | | | | | | | |
| | | | Carlson, KH | Civil & Environmental Engineering | 1372 | 1006305 | Hatch | 07/01/2015 06/30/2019 | |
| COL00687A | Mitigating GHGs through improved land management and biofuels | | | | | | | | |
| | | | Paustian, KH | Soil & Crop Sciences | 1170 | 1003444 | Hatch | 07/01/2014 06/30/2019 | |
| COL00688 | Monitoring Alfalfa, Grass, Corn and Potato Water Use under Full and Deficit Irrigation using a Spatially Distributed Temperature Model | | | | | | | | |
| | | | Chavez, JL | Civil & Environmental Engineering | 1372 | 1006423 | Hatch | 07/01/2015 06/30/2019 | |
| COL00691 | Occurrence of Toxic Algal Metabolites in Irrigation Ponds and their Impact on Crops | | | | | | | | |
| | | | Omur-Ozbek, P | Civil & Environmental Engineering | 1372 | 1006487 | Hatch | 07/01/2015 06/30/2019 | |
| COL00693B | Comparative Evaluation of an Enhanced Remote-Sensing Method for Root-Zone Soil Moisture | | | | | | | | |
| | | | Niemann, J | Civil & Environmental Engineering | 1372 | 1009616 | Hatch | 07/01/2016 06/30/2019 | |
| COL00696B | Recovery of High Value Soil Amendment Products from Anaerobically Digested Cattle Manure | | | | | | | | |
| | | | Sharvelle, S | Civil & Environmental Engineering | 1372 | 1009617 | Hatch | 07/01/2016 06/30/2018 | <i>Terminated</i> |
| COL00699A | Changing sources of ammonia in NE Colorado | | | | | | | | |
| | | | Collett, JL | Atmospheric Science | 1371 | 1006307 | Hatch | 07/01/2015 06/30/2020 | |
| COL00703B | Monitoring Colorado's Climate for Applications in Agriculture and Natural Resources | | | | | | | | |
| | | | Schumacher, R | Atmospheric Science | 1371 | 1012863 | Hatch | 07/01/2017 06/30/2022 | |
| COL00711A | Development of cultivar specific management profiles for new and existing potato cultivars | | | | | | | | |
| | | | Essah, S | San Luis Valley Research Center | 3043 | 1003278 | Hatch | 07/11/2014 06/30/2019 | |
| COL00712A | Development of New Potato Cultivars for Colorado Via Germplasm Enhancement and Evaluation | | | | | | | | |
| | | | Holm, DG | San Luis Valley Research Center | 3043 | 1009902 | Hatch | 07/01/2016 06/30/2021 | |
| COL00713A | Introduction, Adaptability, Production and Survival of Landscape Plants in Colorado | | | | | | | | |
| | | | Klett, J | Horticulture & Landscape Arch | 1173 | 1000257 | Hatch | 07/02/2013 06/30/2018 | <i>Terminated</i> |
| COL00713B | Introduction, Adaptability, Production and Survival of Landscape Plants in Colorado | | | | | | | | |

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| | | | Klett, J | Horticulture & Landscape Arch | 1173 | 1016129 | Hatch | 07/01/2018 06/30/2023 | New |
| COL00714A | Causes and consequences of competitive displacement among biological control agents | | | | | | | | |
| | | | Ode, P | Bioagric Sciences & Pest Mgmt | 1177 | 1000139 | Hatch | 07/17/2013 06/30/2018 | Terminated |
| COL00716A | Improving the Potato Storage Management to Enhance Quality and Marketability | | | | | | | | |
| | | | Jayanty, S | San Luis Valley Research Center | 3043 | 1003275 | Hatch | 07/01/2014 06/30/2019 | |
| COL00717A | Vegetable Crop Management in the Arkansas Valley | | | | | | | | |
| | | | Bartolo, ME | Arkansas Valley Research Center | 3040 | 1006482 | Hatch | 07/01/2015 06/30/2020 | |
| COL00718 | A Systems Biology Approach for the Identification of Gene Networks Controlling Disease Resistance in Response to Climate Change | | | | | | | | |
| | | | Argueso, C | Bioagric Sciences & Pest Mgmt | 1177 | 1006621 | Hatch | 07/01/2015 06/30/2018 | Terminated |
| COL00719 | Understanding and diagnosing herbicide resistance in weeds | | | | | | | | |
| | | | Gaines, T | Bioagric Sciences & Pest Mgmt | 1177 | 1006620 | Hatch | 07/01/2015 06/30/2018 | Terminated |
| COL00728 | Improving Cropping System Resilience through Diversification and Soil Conservation | | | | | | | | |
| | | | Schipanski, M | Soil & Crop Sciences | 1170 | 1003847 | Hatch | 07/20/2014 06/30/2019 | |
| COL00729 | Acute and Chronic Effects of Red Beetroot Juice Consumption on High-Fat Meal-Induced Cardiometabolic Disturbances | | | | | | | | |
| | | | Johnson, S | Food Science & Human Nutrition | 1571 | 1009727 | Hatch | 07/01/2016 06/30/2018 | Terminated |
| COL00730 | Unidos por la Salud/United for Health: Innovative Academic-Community Solutions for Diabetes Prevention in Northern Colorado | | | | | | | | |
| | | | Shomaker, L | Human Dev & Family Studies | 1570 | 1009728 | Hatch | 07/26/2016 06/30/2018 | Terminated |
| COL00731 | Identifying Intake Markers of Fruit and Vegetable Using an Ionomics Approach | | | | | | | | |
| | | | Weir, TL | Food Science & Human Nutrition | 1571 | 1009765 | Hatch | 07/01/2016 06/30/2018 | Terminated |
| COL00732 | Harnessing Ecology to Improve Management of Invasive Plants | | | | | | | | |
| | | | Brown, CS | Bioagric Sciences & Pest Mgmt | 1177 | 1009857 | Hatch | 07/01/2016 06/30/2021 | |
| COL00733 | Management Strategies to Maximize Orchard Productivity and Quality Potential | | | | | | | | |
| | | | Minas, I | Western Colorado Research Center | 3046 | 1009721 | Hatch | 07/01/2016 06/30/2021 | |
| COL00734 | A systems approach to understanding combined biotic and abiotic stress responses in plants | | | | | | | | |
| | | | Leach, JE | Bioagric Sciences & Pest Mgmt | 1177 | 1009898 | Hatch | 07/01/2016 06/30/2021 | |
| COL00735 | Identification of metabolic, morphological, and physiological factors that influence sorghum whole-plant preflowering drought response | | | | | | | | |
| | | | Jahn, CE | Bioagric Sciences & Pest Mgmt | 1177 | 1009895 | Hatch | 07/01/2016 06/30/2021 | |
| COL00736 | Multi-dimensional approaches to understanding the impacts of root diseases in western forests in the presence of increased drought and warming climates | | | | | | | | |
| | | | Stewart, J | Bioagric Sciences & Pest Mgmt | 1177 | 1009887 | Hatch | 07/01/2016 06/30/2019 | |
| COL00737B | Molecular-Marker-Assisted Analysis of Quantitative Traits in Wheat and Dry Beans | | | | | | | | |
| | | | Byrne, PF | Soil & Crop Sciences | 1170 | 1012823 | Hatch | 07/01/2017 06/30/2022 | |
| COL00738 | Managing Soils and Agroecosystems for Long-Term Functioning and Multiple Ecosystem Services | | | | | | | | |
| | | | Fonte, S | Soil & Crop Sciences | 1170 | 1010074 | Hatch | 07/01/2016 06/30/2021 | |
| COL00739 | Understanding the changing dynamics of wheat stripe rust: Adaptation of Puccinia striiformis populations to the central plains and the need for improved epidemiological and population genetic models to enhance disease management | | | | | | | | |
| | | | Broders, K | Bioagric Sciences & Pest Mgmt | 1177 | 1010363 | Hatch | 08/05/2016 06/30/2021 | |
| COL00743A | Combining High Throughput Phenotyping in the field and Genome-wide analysis to discover beneficial alleles for yield | | | | | | | | |
| | | | McKay, JK | Bioagric Sciences & Pest Mgmt | 1177 | 1006619 | Hatch | 07/01/2015 06/30/2020 | |

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| COL00746B | Evaluating Yellow Toadflax Biological Controls | | Norton, AP | Bioagric Sciences & Pest Mgmt | 1177 | 1012869 | Hatch | 07/01/2017 06/30/2022 | |
| COL00753B | Management of Arthropod Pests in Colorado Field Crops | | Peairs, FB | Bioagric Sciences & Pest Mgmt | 1177 | 1012870 | Hatch | 07/01/2017 06/30/2022 | |
| COL00755 | Finding Ways to Mitigate Irrigation-Induced Uranium Contamination in an Irrigated River Valley while Sustaining Crop Productivity | | Gates, T | Civil & Environmental Engineering | 1372 | 1012864 | Hatch | 07/01/2017 06/30/2020 | |
| COL00756 | Impact of Riparian Vegetation on the Irrigation-Influenced Water Balance in the Lower Arkansas River Valley | | Morrison, R | Civil & Environmental Engineering | 1372 | 1012865 | Hatch | 07/01/2017 06/30/2020 | |
| COL00757 | Rewiring Anaerobic Digestion: Developing New Technologies for Production of Biofuel Intermediates and High- Value Chemicals for Cellulosic Wastes | | De Long, S | Civil & Environmental Engineering | 1372 | 1012866 | Hatch | 07/01/2017 06/30/2020 | |
| COL00760 | Exploring linkages between above and belowground diversity to maximize soil functional capacity in Dryland agricultural systems | | Trivedi, P | Bioagric Sciences & Pest Mgmt | 1177 | 1012941 | Hatch | 07/01/2017 06/30/2022 | |
| COL00761 | Phytochemical Diversity of Potato and Association to Human Nutrition and Health | | Heuberger, A | Horticulture & Landscape Arch | 1173 | 1013251 | Hatch | 07/01/2017 06/30/2022 | |
| COL00762 | Certification of Potato Seed for the Improvement of the Potato Industry in Colorado | | Houser, A | Horticulture & Landscape Arch | 1173 | 1013080 | Hatch | 07/05/2017 06/30/2022 | |
| COL00764 | Specialty Crops Production Research for Colorado Growers | | Uchanski, M | Horticulture & Landscape Arch | 1173 | 1013252 | Hatch | 07/01/2017 06/30/2022 | |
| COL00765 | The role of the gut microbiota in estrogen metabolism and dietary flax as a potential modulator | | Cox-York, K | Food Science & Human Nutrition | 1571 | 1013253 | Hatch | 07/26/2017 06/30/2019 | |
| COL00766 | Customized Probiotics as a Novel Therapy for Obesity-Related Blood Vessel Dysfunction | | Gentile, C | Food Science & Human Nutrition | 1571 | 1012867 | Hatch | 07/01/2017 06/30/2019 | |
| COL00767 | Surveying biological and functional diversity of insect pollinators in rangeland habitats of Colorado | | Davis, T | Forest Rangeland Watershed Stwrd | 1472 | 1012942 | Hatch | 07/01/2017 06/30/2020 | |
| COL00768 | Building a basic science knowledge base for Gambel oak woodland management in Colorado | | Ex, S | Forest Rangeland Watershed Stwrd | 1472 | 1012943 | Hatch | 07/01/2017 06/30/2020 | |
| COL00769 | Intersectionality and Collaborative Adaptive Management in Rangeland Decision-making | | Fernandez-Gimenez, M | Forest Rangeland Watershed Stwrd | 1472 | 1012944 | Hatch | 07/01/2017 06/30/2020 | |
| COL00770 | Shifting the conversation on poisonous plants: Toward a complex systems-based framework for managed grazing on rangelands with Geyer larkspur | | Meiman, P | Forest Rangeland Watershed Stwrd | 1472 | 1012945 | Hatch | 07/01/2017 06/30/2020 | |
| COL00771 | What does it take to kill a grass? Improving the resilience of ranching operations through a new understanding of drought-induced mortality of perennial grasses. | | Ocheltree, T | Forest Rangeland Watershed Stwrd | 1472 | 1013337 | Hatch | 07/01/2017 06/30/2020 | |
| COL00772 | Developing Sensing Technologies for Smart Farming Practices in an Internet-of-Ag-Things World | | Ham, J | Soil & Crop Sciences | 1170 | 1013254 | Hatch | 08/02/2017 06/30/2022 | |
| COL00773 | Developing viable and sustainable cropping systems for western Colorado through adoption of conservation practices, diversification, and intensification | | Keshavarz Afshar, R | Agric Experiment Station | 3001 | 1015937 | Hatch | 07/01/2018 06/30/2023 | New |

Friday, January 04, 2019

Colorado Agricultural Experiment Station Active Research Projects

| Project Number | Title | Multi-State No. | Principal Investigator | Department Name | Acct. Dept | CRIS Number | Budget Source | Begin - Term Date | Note |
|------------------|---|-----------------|------------------------|-----------------------------------|------------|-------------|---------------|-----------------------|------|
| COL00774 | Recovery of Soluble Nitrogen Fertilizer from Manure and Animal Byproducts in Anaerobic Digesters | | Sharvelle, S | Civil & Environmental Engineering | 1372 | 1015938 | Hatch | 07/01/2018 06/30/2020 | New |
| COL00775 | Effects of Urban Water Conservation on Agricultural Water Supply in the South Platte River Basin | | Bhaskar, A | Civil & Environmental Engineering | 1372 | 1015939 | Hatch | 07/01/2018 06/30/2021 | New |
| COL00776 | Microgreens: A Novel Food Crop for Sustainably Diversifying Food Systems and Promoting Human Health | | Johnson, S | Food Science & Human Nutrition | 1571 | 1016130 | Hatch | 07/01/2018 06/30/2020 | New |
| COL00777 | Purple Majesty Potato Bioactive Compounds: Linking Nutrition to Beneficial Health Outcomes | | Foster, M | Food Science & Human Nutrition | 1571 | 1016259 | Hatch | 07/01/2018 06/30/2020 | New |
| COL00778 | Development and Pilot Testing of a Series of Cooking Activities for Low Income 4th Graders | | Cunningham-Sabo, L | Food Science & Human Nutrition | 1571 | 1016534 | Hatch | 07/23/2018 06/30/2020 | New |
| COL00780A | Soil Health in Turfgrass Systems: Measurement, Assessment and Enhancement | | Koski, A | Horticulture & Landscape Arch | 1173 | 1010240 | Hatch | 08/09/2016 06/30/2021 | |
| COL00781 | Chemical Priming of Plant Defenses for Increased Crop Protection | | Argueso, C | Bioagric Sciences & Pest Mgmt | 1177 | 1016247 | Hatch | 07/01/2018 06/30/2023 | New |
| COL00782 | Impact of phytochemical nutrients on bumblebee health and longevity | | Bjostad, L | Bioagric Sciences & Pest Mgmt | 1177 | 1016270 | Hatch | 07/01/2018 06/30/2023 | New |
| COL00783 | Understanding and Diagnosing Herbicide Resistance in Weeds | | Gaines, T | Bioagric Sciences & Pest Mgmt | 1177 | 1016207 | Hatch | 07/01/2018 06/30/2023 | New |
| COL00784 | Biological control of <i>Lepidium draba</i> | | Ode, P | Bioagric Sciences & Pest Mgmt | 1177 | 1016267 | Hatch | 07/01/2018 06/30/2023 | New |
| COL00785 | Metabolic Fate of Herbicides in Crops and Weeds | | Dayan, F | Bioagric Sciences & Pest Mgmt | 1177 | 1016591 | Hatch | 07/01/2018 06/30/2023 | New |
| COL00786 | Mutagenesis for Novel Trait Development in Wheat | | Pearce, S | Soil & Crop Sciences | 1170 | 1017671 | MS Hatch | 10/01/2018 06/30/2021 | New |
| COL00795A | Improvement of Quality and Performance of Colorado Wheat | | Haley, SD | Soil & Crop Sciences | 1170 | 1009899 | Hatch | 07/01/2016 06/30/2021 | |

Total Number of AES Projects: 123