

**CALS Quarterly New Awards July - September 2018**

<b>Lead Investigator</b>	<b>Leading Unit</b>	<b>Investigator</b>	<b>Investigator Unit</b>	<b>Award Title</b>	<b>Sponsor</b>	<b>Total Award Amount</b>
Marsh,Stuart E	Sch of Natural Resources	Crimmins,Theresa M	Sch of Nat Resource&Enviro-Res	USA National Phenology Network	United States Geological Survey	\$ 2,999,928
Lopez Hoffman,Laura	Sch of Natural Resources	Baldwin,Elizabeth; Bethard,Steven John; Miller,Marc L; Ram,Sudha	School of Govt & Public Policy; School of Information; Law Administration; MIS	RIDIR: Collaborative Research: A Data Science Platform and Mechanisms for Its Sustainability	National Science Foundation	\$ 1,500,000
Breshears,David D	Sch of Natural Resources	Baldwin,Elizabeth; Lopez Hoffman,Laura; Soto,Jose	School of Govt & Public Policy	CNH-L: Revealing the Hidden Ecoclimate Teleconnections Between Forest and Agriculture in the U.S. Enables Novel Governance Strategies for a Telecoupled World	National Science Foundation	\$ 1,450,000
Riehle,Michael A	Entomology			Midgut Mitochondrial Function as a Driver of Resistance and Fitness in Mosquitoes	National Institute of Allergy and Infectious Disease	\$ 726,380
Tronstad,Russell E	Agric & Resource Econ	Brischke,Andrew; Greene,Elizabeth Ann; Hall,Ashley; Rappold,Patrick Matthew ; Schalau,Jeff W; Sherman,Joshua D; Teegerstrom,Trent; Wright,Ashley Diane	Mohave County Office; Gila County; Cochise County, AREC	Developing Opportunities and Growing Business of Limited-Resource and Native American Beginning Farmers and Ranchers in Arizona	United States Department of Agriculture	\$ 600,000
Pauli,William Duke	School of Plant Sciences	Andrade Sanchez,Pedro	Biosystems Engineering-Res	A Reference Phenotyping System for Energy Sorghum	DOE-The Donald Danforth Plant Science Center	\$ 505,232
Nelson,Andrew	School of Plant Sciences	Devisetty,Upendra	BIO5 Institute	MINE-PGR: Mining Public RNA-Seq Data to Identify and Annotate Long Non-Coding RNAs in Fifteen Diverse Angiosperms	National Science Foundation	\$ 473,600
Hingle,Melanie D	Nutritional Sciences	Marrero,David; Roe,Denise	Senior VP Health Sciences	Type 2 Diabetes Prevention in Community Health Care Settings for at Risk Children and Mothers	National Institute of Diabetes and Digestive and Kidney Diseases	\$ 455,171
Brown,Judith K	School of Plant Sciences			Asian Citrus Psyllid Polymerase Chain Reaction Analysis Contract (Agreement Number 17-0225)	USDA-California Department of Food and Agriculture	\$ 386,955

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Bogan,Michael	Sch of Natural Resources			Collaborative Proposal: MSB-FRA: Scaling Climate, Connectivity and Communities in Streams	National Science Foundation	\$ 375,181
Didan,Kamel	Biosystems Engineering - Res	Didan,Kamel	Biosystems Engineering - Res	Vegetation Assessment of Greenup and Evapotranspiration Using Satellite Imagery for Native and Non-Native Plants in Western U.S.A. Riparian Zones	United States Geological Survey	\$ 369,891
Quanrud,David M	Sch of Natural Resources	Arnold,Robert; Park,Minkyu; Saez,Avelino; Snyder,Shane	Chemical & Environmental Engr	Simulation of Singlet Oxygen Kinetics for Trace Organic Transformation in Wastewater Effluent	National Science Foundation	\$ 329,966
Mcclaran,Mitchel P	Sch of Natural Resources	Crimmins,Michael; Ferguson,Daniel B	Soil Water and Enviro Sci-Ext	Livestock Ranching, Rangelands, and Resilience: Ensuring Adaptive Capacity in an Increasingly Variable Climate	USDA - University of Colorado, Boulder	\$ 232,365
Parrott,Amy M	Yuma County Office			First Smiles Yuma	Arizona Early Childhood Development and Health Board	\$ 220,000
Vedantam,Gayatri	Animal&Biomedical Sciences			Gastrointestinal Colonization of Diarrheagenic Clostridium Difficile	United States Department of Veterans Affairs	\$ 201,583
Martinez,Cathy L	Pinal County Office	Martinez,Cathy L	Pinal County Office	Child Care Health Consultation	Arizona Early Childhood Development and Health Board	\$ 183,680
Brierley,Paul E	YCEDA	Andrade Sanchez,Pedro; Frisvold,George; Sanchez,Charles; Ottman,Michael J	Biosystems Engineering-Res, AREC, SWES, SPS	Nitrogen Management and Water Footprint for Arizona Durum Production	Barilla USA	\$ 142,354
Dial,Sharon M	AZ Veterinary Diagnostic Lab	Dial,Sharon M	AZ Veterinary Diagnostic Lab	AZ FY 18 Level 2 Member Lab Agreement	United States Department of Agriculture	\$ 137,000
Dixon,Darcy L	Santa Cruz County Office			General Support of Compost Cats Programming	Rathmann Family Foundation	\$ 100,000

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Tronstad,Russell E	Agric & Resource Econ	Diaz,Duarte; Greene,Elizabeth Ann; Hall,Ashley; Sherman,Joshua D; Ashley Diane	Animal&Biomedical Sciences-Ext; Gila County; Cochise County	Risk Management Education for Arizona's Livestock, Dairy, Forage, and Tree Nut Producers	United States Department of Agriculture	\$ 99,990
Rappold,Patrick Matthew	Gila County Office			Identification of Opportunities and Barr	United States Department of Agriculture	\$ 98,301
Steidl,Robert J	Sch of Natural Resources	Christianson,David A	Sch of Nat Resource&Enviro-Res	MEXICAN GRAY WOLF- Holloman AFB	United States Army Corps of Engineers	\$ 97,801
Smith,William Kolby	Sch of Natural Resources	Smith,William Kolby	Sch of Nat Resource&Enviro-Res	Defining the Relationship of Productivity With Water Availability Across the Semiarid Western U.S.	Agricultural Research Service	\$ 95,324
Ruyle,George B	Sch of Natural Resources			Arizona Rangeland Education, Outreach, and Monitoring	United States Forest Service	\$ 90,000
Dixon,Darcy L	Santa Cruz County Office			Child Care Health Consultation (Santa Cruz County)	Arizona Early Childhood Development and Health Board	\$ 89,600
Wyatt,Melissa A	La Paz County Office			First Things First, Childcare Health Consortium Mohave and LaPaz	Arizona Early Childhood Development and Health Board	\$ 85,195
Tabashnik,Bruce E	Entomology			Selection for Vip3A Resistance in Helicoverpa Zea	Bayer Crop Science GmbH	\$ 70,000
Ramirez,Monica D	Soil Water and Enviro Sci			Dirt Alert: Legacy Mining Contaminant Impacts in Preschools	Sierra Streams Institute	\$ 60,546
Arnold,Anne E	School of Plant Sciences			AEA-2018-01: Seed Associated Microbes	Indigo	\$ 55,997
Arnold,Anne E	School of Plant Sciences			AEA-2018-02: Relatives of crop plants/plants in cultivated environments	Indigo	\$ 55,997
Blankinship,Joseph	Soil Water and Enviro Sci			Innovations in Workforce Development: University Industry Consortium Fellows Program	FFAR- North Carolina State University	\$ 55,000
Brown,Judith K	School of Plant Sciences			Testing services agreement related to PCR diagnostics to cocoa swollen shoot virus	Wm. Wrigley Jr. Company	\$ 50,000

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Culver,Melanie	Sch of Natural Resources	Culver,Melanie	Sch of Nat Resource&Enviro-Res	Camera Study to Monitor Large Predators Including Jaguar and Ocelot	United States Forest Service	\$ 50,000
Bogan,Michael	Sch of Natural Resources	Wilder,Benjamin T	Science Administration	Establishing a Hydrologic and Biologic Baseline for Predictive Management of Threatened Freshwater Habitats in the Western Sonoran Desert	National Park Service	\$ 49,748
Fehmi,Jeffrey S	Sch of Natural Resources			Baseline Phonological Observation of Seasonal Biological Events	National Park Service	\$ 45,000
Dixon,Ashley L	Gila County Office	Martinez,Cathy L	Pinal County Office	Developmental and Sensory Screening	Arizona Early Childhood Development and Health Board	\$ 43,750
Giacomelli,Gene A	Biosystems Engineering - Res	Giacomelli,Gene A	Biosystems Engineering - Res	UibQD Company Quantum Dots Film Study	NASA-UbiQD, Inc.	\$ 42,135
Hodges,Tanya M	Agricultural Education			Financial Support and Strengthen the USDA-NRCS Diversity Recruitment Mission in Support of the Natural Resource Career Development Program (NRCDP) Initiative	United States Department of Agriculture	\$ 41,000
Fehmi,Jeffrey S	Sch of Natural Resources	Gornish,Elise	Sch of Nat Resource&Enviro-Res	Restoring Biotic Diversity in Lehmann Lovegrass Dominated Grasslands: Fertile Islands	National Park Service	\$ 39,935
Christianson,David A	Sch of Natural Resources	Christianson,David; Coleman,Tyler	Sch of Nat Resource&Enviro-Res	Anthropogenic and Climate Impacts on Ungulates in the Greater Organ Pipe Cactus National Monument Ecosystem	National Park Service	\$ 39,435
Curley,Deborah L	Pima County Office			Pima South Parent Outreach and Awareness	United Way	\$ 38,000
Hu,Jia	Sch of Natural Resources			Rocky Mountain Juniper Influences on Stream Hydrology	Turner Enterprises, Inc.	\$ 35,000
Skulas-Ray,Ann Christine	Nutritional Sciences	Richter,Chesney	Nutritional Sciences-Res	Cardioprotective Effects of Freeze Dried Grape Powder Supplementation on Blood Pressure and Plasma Lipids/Lipoproteins: A Pilot Study	California Table Grape Commision	\$ 35,000
Christianson,David A	Sch of Natural Resources			DS CESU: Wildlife Occupancy Modelling and Monitoring in Sonoran Desert Parks	National Park Service	\$ 34,391

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Ellsworth,Peter C	Maricopa Ag Center	Carlos Bordini,Isadora; Fournier,Alfred J	Maricopa Ag Center-Ext	Empowering Producers to Effectively Integrate Chemical and Biological Controls through Research and Outreach on Selective Chemistries and Impacts on Natural Enemies	USDA-Utah State University	\$ 25,000
Ottman,Michael J	School of Plant Sciences	Curlango Rivera,Gilberto; Hawes,Martha C;Ottman,Michael J	Soil Water Enviro Sci-Res, SPS	Drought Tolerance in Barley: Discovery of a Possible Mechanism Involving Root Tip Characteristics (19-04)	Arizona Grain Research And Promotion Council	\$ 25,000
Tabashnik,Bruce E	Entomology			Targets for CRISPR/Cas9-mediated Gene Drive in Bemisia Tabaci: A strategy for Controlling a Global Pest	Binational Agricultural Research and Development Fund (Israel)	\$ 25,000
Walker,Kathleen R	Entomology	Brophy,Maureen	Interdis Graduate Prog Admin	Genetic Variation and Endosymbiont Diversity of Rhipicephalus Sanguineus Populations across Arizona/Pacific Southwest Regional Center of Excellence for Vector-Borne Disease Research at the Univer.....	University of California, Davis	\$ 25,000
Kacira,Murat	Biosystems Engineering - Res	Tollefson,Stacy Joy	Biosystems Engineering-Ins	Hydroponic Production of Leafy Greens in NFT System and Technology Showcase	American Hydroponics	\$ 24,809
Hodges,Tanya M	Agricultural Education	Mars,Matthew M	Agricultural Education-Ins	Ag-Discovery Summer Enrichment Program	United States Department of Agriculture	\$ 24,143
Wright,Glenn C	School of Plant Sciences			FY18 NCPN- University of Arizona- The Ar	United States Department of Agriculture	\$ 21,979
Hu,Jiahuai	School of Plant Sciences	Wright,Glenn C	School of Plant Sciences-Res	Coupling Spore Traps and Quantitative PCR Assays for Detection and Quantification of Airborne Spores of Antrodia Sinuosa in Lemon Orchards of Yuma - 2018	Arizona Citrus Research Council	\$ 21,150
Brierley,Paul E	YCEDA			Satellite Measurement of Evapotranspiration (ET) from Desert Iceberg Lettuce Production Systems	Arizona Iceberg Lettuce Research Council	\$ 21,011
Xiong,Zhongguo	School of Plant Sciences			Sensitivity of and Potentials for Early Detection of Diseased Plants by Existing and Novel Polarimetry Devices	Nikon Research Corporation of America	\$ 20,572

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Koprowski,John L	Sch of Natural Resources	Koprowski,John L	Sch of Nat Resource&Enviro-Res	Sierrita/RU1 Recovery Funds	Freeport-McMoRan, Inc.	\$ 20,000
Palumbo,John C	Entomology			Evaluation of New Insecticides for Insect Management in Desert Head Lettuce	Arizona Iceberg Lettuce Research Council	\$ 19,994
Ottman,Michael J	School of Plant Sciences	Andrade Sanchez,Pedro	Biosystems Engineering-Res	Tools for Nitrogen Management of Wheat (19-01)	Arizona Grain Research And Promotion Council	\$ 19,657
Brandau,William K	Graham County Office	Brandau,William K	Graham County Office	Child Care Health Consultation (Graham/Greenlee County)	Arizona Early Childhood Development and Health Board	\$ 17,920
Wheeler,Diana E	Entomology			Acquisition of Goods and Services - Wheeler	Agricultural Research Service	\$ 17,875
Brown,Judith K	School of Plant Sciences			Map the Genome of U. S. Isolates of Cotton Leaf Roll Dwarf virus (CLRDV), the Causal Agent of Cotton Blue Disease, and Develop RT-PCR Primers that will Detect CLRDV	Cotton, Incorporated	\$ 17,000
Gornish,Elise	Sch of Natural Resources	Fehmi,Jeffrey S	Sch of Nat Resource&Enviro-Res	Restoration Ecology Internship for Southwest National Parks	National Park Service	\$ 15,000
Apel,Mark B	Cochise County Office			Water Wise Conservation Outreach	Upper San Pedro Partnership	\$ 14,096
Walsh,Michele E	Sch of Family & Consum Sci	DeBlois,Madeleine	Sch of Family Consumer Sci-Res	Evaluation of the Farm to School program of the Community Food Bank of Southern Arizona	Community Food Bank	\$ 13,994
Palumbo,John C	Entomology			Testing Efficacy of BASF Experimental Insecticides on Leafy Vegetables	BASF Corporation	\$ 13,385
Dhar,Arun K	Animal&Biomedical Sciences	Dhar,Arun K	Animal&Biomedical Sciences-Res	Early Mortality Syndrome/Acute Hepatopancreatic Necrosis Disease Challenge of Penaeus Vannamei Juveniles, Fed One of 5 Proprietary Diets to Determine the Survival Effect	Anpario PLC	\$ 12,677
Hu,Jiahuai	School of Plant Sciences			Survey of Fusarium Oxysporum f. sp. Vasinfectum in Arizona Cotton	Cotton, Incorporated	\$ 10,825

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Hullinger,Ashley Rene	Water Resources Research Center	Hullinger,Ashley Rene	Water Resources Resrch Ctr-Ext	Providing Stakeholder Perspectives and Accumulated Data to Upper Gila Watershed Management Plan	Gila Watershed Partnership	\$ 9,287
Ottman,Michael J	School of Plant Sciences			Small Grains Variety Testing (19-02)	Arizona Grain Research And Promotion Council	\$ 5,461
Frisvold,George B	Agric & Resource Econ	Bickel,Ashley Kerna; Duval,Dari Fae	Agricultural Resource Econ-Ext	The Economic Contribution of Agriculture in Pinal County	Central Arizona Irrigation & Drainage District	\$ 5,250
Brown,Paul W	Extension Programs	Brown,Paul W	Extension Programs	Supporting Climate-Smart Decision Making in Arizona, USDA Southwest Climate Hub	Agricultural Research Service	\$ 5,000
Simpson,Richard	Nutritional Sciences			Acute Exercise Improves the Composition and Function of Donor Peripheral Blood Stem Cell Grafts for Allogeneic Transplantation	American College of Sports Medicine Foundation	\$ 5,000
Schwartz,Kerry L	Water Resources Research Center			Aqua STEM Groundwater Presentations - 4th Grade	City of Surprise	\$ 4,843
Kacira,Murat	Biosystems Engineering - Res			Airflow Uniformity in Vertical Farm Factory	AeroFarms	\$ 4,037
Palumbo,John C	Entomology			Monitoring for Lettuce Insects in Yuma County	Arizona Iceberg Lettuce Research Council	\$ 3,720
Galbraith,David W	School of Plant Sciences	Galbraith,David W	School of Plant Sciences-Res	Bench fees for Beenish Afzal	Higher Education Commission (Pakistan)	\$ 3,500
Gouker,Steven	Navajo County Office	Penrod,Meghan	Navajo County Office	4H Robotics Program - FTC/First, VEX EDR	NSF-White Mountain Nature Center	\$ 3,345
Mars,Matthew M	Agricultural Education	Mars,Matthew M	Agricultural Education-Ins	Developing and Diffusing a Cross-Disciplinary, Multi-Institutional University Entrepreneurial Leadership Graduate Course	The Association of Public and Land-grant Universities	\$ 1,750

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Hefty,Kira Leigh	Sch of Natural Resources	Koprowski,John L	Sch of Nat Resource&Enviro-Res	Are Urban Environments Suitable Habitat for a Threatened Species?	American Society of Mammalogists	\$ 1,500
Abrell,Leif M	Soil Water and Enviro Sci			Advancing Informal Environmental STEM Literacy & Learning: A Co-Created Citizen Science Rainwater Harvesting in Undeserved Communities	NSF-Arizona State University	\$ 461
Lopez,Gerardo U	Animal&Biomedical Sciences			Cyclospora: Potential Reservoirs and Occurrence in Irrigation Waters (WAESO)	NSF-Arizona State University	\$ 461
Lopez,Gerardo U	Animal&Biomedical Sciences			Detection of Cyclospora Cayetanesis and Norovirus in Irrigation Water and Wastewater Using Third Generation Droplet Digital PCR	NSF-Arizona State University	\$ 461
Stock,S Patricia	Entomology			Pheromone Production in Steinernema Carpocapsae Adults WAESO	NSF-Arizona State University	\$ 461
Stock,S Patricia	Entomology			Role of Type 6 Secretion System in Entomopathogenic Bacterium Xenorhabdus Bovienii WAESO	NSF-Arizona State University	\$ 461
Stock,S Patricia	Entomology			Symbiont Transmission in Photorhabdus Nematodes	NSF-Arizona State University	\$ 461



**New Awards by CALS Co-Investigator when Leading PI is not in CALS**

Co-Investigator	Co-Investigator Unit	Lead Investigator	Leading Unit	College Name	Award Title	Sponsor	Total Anticipated Amount (Award)	Co-PI Award Amount
Abrell,Leif M	Soil Water Enviro Sci-Res	Sierra Alvarez,Maria Reyes	Chemical & Environmental Engr	College of Engineering	Remediation of Per- and Polyfluoroalkyl Contaminated Groundwater Using Cationic Hydrophobic Polymers as Ultra-High Affinity Sorbents	United States Army Corps of Engineers	\$ 1,211,467	\$ 31,943
Broxton,Patrick D	Sch of Nat Resource&Enviro-Res	Niu,Guo-Yue	Hydrology & Atmospheric Sci	College of Science	Improving National Water Model (NWM) Snowmelt Runoff Prediction	National Oceanic and Atmospheric Administration	\$ 526,389	\$ 89,486
Chorover,Jonathan D	Soil Water Enviro Sci-Res	Sierra Alvarez,Maria Reyes	Chemical & Environmental Engr	College of Engineering	Remediation of Per- and Polyfluoroalkyl Contaminated Groundwater Using Cationic Hydrophobic Polymers as Ultra-High Affinity Sorbents	United States Army Corps of Engineers	\$ 1,211,467	\$ 63,886
Garfin,Gregg M	Sch of Nat Resource&Enviro-Ext	Jeffery,R Brooks	School of Architecture	Col Arch Plan & Landscape Arch	Framework for Addressing Culture Resource Vulnerabilities in the NPS-IMR, Phase II	National Park Service	\$ 99,654	\$ 12,457
Van Leeuwen,Willem J	Sch of Nat Resource&Enviro-Res	Jeffery,R Brooks	School of Architecture	Col Arch Plan & Landscape Arch	Framework for Addressing Culture Resource Vulnerabilities in the NPS-IMR, Phase II	National Park Service	\$ 99,654	\$ 12,706
Weiss,Jeremy Lee	Sch of Nat Resource&Enviro-Ext	Jeffery,R Brooks	School of Architecture	Col Arch Plan & Landscape Arch	Framework for Addressing Culture Resource Vulnerabilities in the NPS-IMR, Phase II	National Park Service	\$ 99,654	\$ 24,914