

Current Research Projects Related to the Feeding the World Grand Challenge

Long Title	Researcher	Primary Unit
Advanced Plant & Soil Sciences	Elliot, John	Ag Leadership, Education & Communication
Advancing Lines, Hybrids and QTL for Yield and Adaptation towards Commercialization	Murray, Seth; Pekar, Jacob; Xu, Wenwei	Soil & Crop Sciences
Evaluation of Six Glandless Cottonseed Meal Samples in the Laboratory, for suitability as an Aquaculture Feed Ingredient and Digestibility Determination of these samples	Samocha, Tzachi	Corpus Christi Center
Food Protection Rapid Response Team and Program Infrastructure Improvement Prototype	Herrman, Timothy	Office Of The State Chemist
Functional and Sequence Analysis of Fiber Development in Allotetraploid Cotton	Stelly, David	Soil & Crop Sciences
Harmonized Support for Agriculture Development (HSAD) Project in Iraq	Rawendoozi, Maad; Smith, Roland	Borlaug Institute For Int'l Agriculture
High-throughput SNP markers: SNP Chip	Stelly, David	Soil & Crop Sciences
Improved Sugarcane Varieties Via Biotechnology	Mirkov, Theodore	Weslaco Center
Improving Fiber Elongation of U. S. Germplasm Cotton Fiber Quality	Dever, Jane	Lubbock Center
NIFA USDA National Plant Diagnostic Network for Food and Agriculture Defense Initiative GDPN Network	Rush, Charles	Amarillo Center
Occurrence, Distribution, Damage Potential and Management of the Sorghum Sugarcane Aphid in Texas	Brewer, Michael; Way, Michael	Corpus Christi Center
Pasture, Rangeland, and Forage Vegetation Index Program of Insurance-Pilot	Angerer, Jay	Temple Center
Phenotyping and Genotyping of RIL Populations for Gene Discovery and Marker Development	Burow, Mark	Lubbock Center
Postharvest Training Materials for Smallholder Producers of Horticultural Crops That Support Transitions to Commercialization	Cisneros-Zevallos, Luis	Horticultural Sciences
Revitalizing the Central American Coffee Sector after the Rust Crisis of 2012 Through applied Research and Development	Lombardini, Leonardo; Schilling, Timothy	Horticultural Sciences

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Seed -to-Harvest Operations Manual & Training Program for Indoor BioFloc-Dominated (BFD) Production of <i>L. vannamei</i> , the Pacific White Shrimp	Samocha, Tzachi	Corpus Christi Center
Sugar Beet and Seed Priming	Rush, Charles	Amarillo Center
Sugarcane Variety Improvement Program: Sugarcane Breeding plus Bioreactors	Dasilva, Jorge	Weslaco Center
The use of aquaculture effluents in spray culture for the production of high protein macroalgae for shrimp aqua-feeds	Samocha, Tzachi	Corpus Christi Center
Use and Environmental Stability of QTLs and TL-assisted Selection for Fiber Quality in Upland Cotton	Smith, C	Soil & Crop Sciences
Assessing Viticulture Production Practices for Robotic Technology Development	Dudensing, Rebekka; Hellman, Edward; McCorkle, Dean	Agricultural Economics
Current Economic Status Of Conservation And No-Till Cotton Production In The Southeastern United States	Hogan, Robert; Johnson, Jason	Agricultural Economics
Developing an iPad Application to Assist Cotton Producers in Making Crop Insurance Decisions	Bennett, Blake	Agricultural Economics
Evaluating More Efficient Methods of Cotton Warehousing	Robinson, John	Agricultural Economics
Evaluation of New Technology and Production Practices for the Texas Blacklands	Morgan, Gaylon	Soil And Crop Sciences
Evaluation of New Technology and Production Practices for the Texas Coastal Plains	Morgan, Gaylon	Soil And Crop Sciences
Evaluation of New Technology and Production Practices for the Texas Coastal Plains	Welch, James	Agricultural Economics
High Plains Cotton Profitability Project	Smith, Jackie; Yates, James	Agricultural Economics
Introducing Alternative Crops Inot Traditional Cotton-Grain Farming To Aid Transition To Freedom To Farm Agriculture	Bender, David	Agrilife Extension Service
Livestock Forage and Crop Risk Management Education and Analysis Tools	Waller, Mark	Agricultural Economics
Seed-to-Harvest Operations Manual & Training Program for Indoor BioFloc-Dominated (BFD) Production of <i>L. vannamei</i> , the Pacific White Shrimp	Jacob, John	Recreation, Park & Tourism Sci.

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Strengthening Extension and Advisory Services in the Republic of Georgia (SEAS)	Smith, Roland	Borlaug Institute For Int'l Agriculture
New Mexico Alert Program - Syndromic Surveillance Program in Texas	Hairgrove, Thomas	Animal Science
BOLD Supplemental Analysis	Walzem, Rosemary	Poultry Science
CFP Administration of Food Safety	Hall, Samuel; McWhorter, George	Borlaug Institute For Int'l Agriculture
Comparison of Atlas and Assurance GDS Assays for Detection of E. coli O157:H7 in Ground Beef	Acuff, Gary	Animal Science
Correlation of surrogate bacteria and salmonellae for validation of spiceherb pathogen reduction processes	Acuff, Gary; Castillo, Alejandro	Animal Science
Effect of Treatment on the Reduction of Salmonella Colonization in 10-day old Chicks	Duong, Tri	Poultry Science
Identifying Bacteriophages Capable of Inactivating Multi-Drug Resistant (MDR) Salmonella Newport as a Pre-Harvest Antimicrobial Intervention	Gill, Jason; Harris, Kerri; Savell, Jeffrey; Taylor, Thomas	Animal Science
Impacts of Sorghum Varietals on Lipoprotein Profiles	Turner, Nancy	Nutrition And Food Science
Peanut and Mycotoxin Innovation Lab: Feed the Future Initiative	Baring, Michael; Burow, Mark; Simpson, Charles	Soil & Crop Sciences
Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach	Taylor, Thomas	Animal Science
Study Prevalence of Salmonella Honduras	Hall, Samuel; McWhorter, George	Borlaug Institute For Int'l Agriculture
Validation of Hot Water Intervention in Beef Slaughter	Acuff, Gary; Castillo, Alejandro	Animal Science
Advanced Processing Technologies As Multiple Hurdles To Inactive Stec Viruses During Beef Processing and Non Intact Beef Products	Rosson, Claude	Tamu-Aerospace Engineering
At last! A Second, Independent Method: Estimating Fugitive PM 10 Flux from Commercial Cattle Feedyards Using the Integrated Horizontal Flux Approach	Auvermann, Brent	Amarillo Center

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Electronic Survey of Licensed Texas Anglers: Potential Revisions to Regulations Impacting Spotted Seatrout and Flounder Fisheries	Kyle, Gerard; Schuett, Michael	Recreation, Park & Tourism
Managing Insect Pests and Diseases in Multi-Use Landscapes of Bioenergy and Conventional Cropping Systems in the Gulf Coast	Henne, Donald	Weslaco Center
Water-use Efficiency and Water Capture Applicable for Agriculture	Hall, Samuel; McWhorter, George	Borlaug Institute For Int'l Agriculture
2014 Insect Pest Management in Texas High Plains Cotton	Parajulee, Megha	Lubbock Center
2012-2014 Texas Sea Grant Support " Investigation of Short-Term Fluctuation In Shrimp Abundance In the Gulf of Mexico "	Fujiwara, Masami	Wildlife & Fisheries Science
An Integrated Approach to Enhance Water Use and Drought Tolerance in Texas Cotton Production	Fernandez, Carlos; Rajan, Nithya; Cothren, J	Corpus Christi Center
APEX Analysis of Pesticide Fate in Cotton Production Systems	Wang, Xiuying	Temple Center
Application of Raman Spectroscopy for Detection of Aflatoxins in Corn	Lee, Kyung Min	Office Of The State Chemist
Assessing the Climate Change Impacts on Cotton Production in the Texas High Plains using the DSSAT CROPGRO-Cotton Model	Ale, Srinivasulu	Vernon Center
Assessment of the Survival and Movement of Helicoverpa zea Between the New Lep Product and non-Bt Plants in a Refuge in a Bag (RIB) Configuration in 2014 US Field Trials	Brewer, Michael	Corpus Christi Center
Assessment of the Survival and Movement of Spodoptera frugiperda Between the new Lep Product and non-Bt Plants in a Refuge in a Bag (RIB) Configuration in 2014 US Field Trials	Brewer, Michael	Corpus Christi Center
Conserving Water in Rural and Urban Vegetable Farming	Leskovar, Daniel	Uvalde Center
Evaluation and demonstration of VTA effectiveness to protect runoff water quality on small pork production facilities in Texas	Wagner, Kevin	Texas Water Resources Institute

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Impact of Cotton Cropping Systems on Soil Properties in the Texas Rolling Plains and High Plains (#13-453TX)	De Laune, Paul	Vernon Center
Improving Soil Quality To Increase Yield and Reduce Diseases In Organic Rice Production	Dou, Fugen	Beaumont Center
Leaf Disc Bioassays on T0 and T1 Plants with Lepidopteran Pests	Parajulee, Megha	Lubbock Center
Mechanisms of Hypoxic Adaptation in Storage Insect Pests	Zhu Salzman, Keyan	Entomology
Optimised Production of Black Soldier Fly	Tomberlin, Jeffery	Entomology
Protocol Development for Farm and Field-scale Soil Mapping in Argentina	Morgan, Cristine	Soil & Crop Sciences
Sequoia Farm Foundation:Crop Performance and Water Use Efficiency Assessment Using Three Irrigation System Methods	Marek, Thomas; Porter, Dana	Amarillo Center
Use of Genetic & Genomic Tools In Sorghum To Enhance Our Under- Standing of Developmental Processes Limited Yield In Grass	Klein, Patricia	Institute Plant Genomics & Biotechnology
Identification of Plant Nematodes and Pathogens of Regulatory Concern	Ong, Kevin	Plant Pathology And Microbiology
iSchool Pest Manager - Website, App and Interface	Hurley, Janet	Entomology
Texas Turfgrass Crop Profile & Pest Management Strategic Plan (PMSP)	Reynolds, William	Soil And Crop Sciences
Assessment of Field Performance of S2399 in Sorghum	Isakeit, Thomas	Plant Pathology And Microbiology
Control Strategies for Emerging Problem Weeds in Minimum Tillage and Glyphosate Tolerant Cotton	Drake, David	Soil And Crop Sciences
Educational Programming on the Use of Herbicides for the Control of Cotton Plants Post-Harvest in the Lower Rio Grande Valley of Texas	Sekula, Danielle	Entomology
Educational Programming on the Use of Herbicides for the Control of Volunteer Cotton in Corn, Grain Sorghum and Sugarcane in the Lower Rio Grande Valley of Texas	Sekula, Danielle	Entomology

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Integrated Pest Management in the Coastal Bend of Texas	Biles, Stephen	Entomology
INTEGRATED PEST MANAGEMENT OF COTTON FLEAHOPPER	Biles, Stephen	Entomology
Investigating the Invasive Sugarcane Aphid in the LRGV	Sekula, Danielle	Entomology
Reducing Fall Armyworm and Western Bean Cutworm Damage In Strip Refuges Through Toxic Pollen From Nearby Bt Corn	Bynum, Edsel; Porter, Robert; Vandiver, Monti	Entomology
Salinity Management in Irrigated Cotton Production in the Permian Basin TransPecos and Rolling Plains	Drake, David	Soil And Crop Sciences
Southern Region IPM Center's Regulatory Information Network: Leadership for the Southwest Sub-Region	Matocha, Mark	Ag & Environmental Safety
Strengthening of Soil and Water Testing Services and Crop Validation Strategies	Norton, Roger	Borlaug Institute For Int'l Agriculture
Supplemental Psyllid and Citrus Survey for Detecting Citrus Greening in Southeast Texas	Appel, David; Ong, Kevin	Plant Pathology And Microbiology
Texas IPM Program	Allen, Charles	Entomology
2010 University Protocol for Evaluating Field Efficacy of Herculex* I, Yieldgard* Corn Borer, and Bt11xmir162 Deployed	Brewer, Michael	Corpus Christi Center
2014 Bacterial Blight Applications for Cotton in the Southern High Plains of Texas	Wheeler, Terry	Lubbock Center
2014 Cotton Fleahopper Cage Trial	Sword, Gregory	Entomology
2014 Germplasm Improvement Project	Dever, Jane	Lubbock Center
2014 Lygus Agronomic Yield Trial...2014 Cotton Fleahopper Cage Trial....2014 BG IV R3 Agronomic Yield Trial	Parajulee, Megha	Lubbock Center
A Safer Cottonseed through Tissue-Specific Reduction of Gossypol	Rathore, Keerti	Institute Plant Genomics & Biotechnology
AF Grants to Central Africa Project: Democratic Republic of the Congo	Cleboski, Linda	Borlaug Institute For Int'l Agriculture
Alkali Treatment of Sorghum Distillers Grains Alone or in Combination with Corn Stalks to Increase their Nutritive Value	Jennings, Jenny; McCollum, Foris	Amarillo Center
Americot XtendFlex Germplasm Evaluation Protocol - Texas 2014	Ritchie, Glen	Lubbock Center

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An evaluation of the effect of feeding ButiPEARL, XPC and ULTRAMIX C alone and in combination from day of age through 42 days of age on live production variables and processing yields of Cobb Male Broilers	Lee, Jason	Poultry Science
An evaluation of the effect of feeding Lysoforte™ from day of age through 42 days of age on live production variables and processing yields of Cobb male broilers	Carey, John	Poultry Science
An evaluation of the effect of feeding Lysoforte™ from day of age through 42 days of age on live production variables and processing yields of Cobb male broilers	Lee, Jason	Poultry Science
An Evaluation of the effect of XPC on modulating adaptive immune function in broilers	Berghman, Luc; Carey, John	Poultry Science
Analysis of Clinal Responses In Maize: Development and Implementation of An Experimental Framework for Studying Crop	Hague, Steven; Murray, Seth; Smith, C. Wayne	Tamu-Soil & Crop Sciences
Analysis Of Fiber Traits And Development Of Toolkits Enabling Enhanced Fiber Breeding In Cotton Using An Integrated Rad-Seq And Rna-Seq Approach	Zhang, Hongbin	Soil & Crop Sciences
Analysis Of Fiber Traits And Development Of Toolkits Enabling Enhanced Fiber Breeding In Cotton Using An Integrated Rad-Seq And Rna-Seq Approach	Zhang, Meiping	Soil & Crop Sciences
Annual Analyses of the Effectiveness of the Lam Promotion, Research and Information Order	Williams, Gary	Agricultural Economics
Associating Genotype, Phenotype, and Digital Images for Cotton Genetic Resources	Dever, Jane	Lubbock Center
Beneficial fungal endophytes for nematode management in cotton	Starr, James; Sword, Gregory; Wheeler, Terry; Woodward, Jason	Plant Pathology & Microbiology
Breeding & Testing for Aflatoxin Resistance	Xu, Wenwei	Lubbock Center

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Breeding for Resistance to the Cotton Fleahopper	Hague, Steven	Soil & Crop Sciences
Characterization of Cotton Crop Response to Thrips Injury for Improved Thrips Management in Texas High Plains Cotton	Parajulee, Megha	Lubbock Center
Cotton Fleahopper Greenhouse Study	Sword, Gregory	Entomology
Democratic Republic of the Congo Program	Price, Edwin	Agricultural Economics
Derivation of Agronomically Suitable Reniform-Resistant Cotton Lines by High-Resolution Recombination and Phenotypic Assessment	Stelly, David	Soil & Crop Sciences
Determining the efficacy of 6-Phytase and Rovabio in the presence of high dietary copper	Lee, Jason	Poultry Science
Develop improved timing of application technology to reduce exposure of pesticides to honeybees	Lacey, Ronald	Biological And Agricultural Engineering
Development and Management of Canola in the Great Plains Region	De Laune, Paul	Vernon Center
Development of a Second Generation, High-Yielding Early-Maturing Runner Peanut for Texas	Baring, Michael; Burow, Mark	Soil & Crop Sciences
Development of Economic Threshold and Management Recommendations for Lygus in Texas High Plains Cotton	Niu, Genhua; Parajulee, Megha	El Paso Center
Double Haploid Inducer in Cotton	Stelly, David	Soil & Crop Sciences
Effect of feeding Bacillus on growth performance, carcass yield, and gut microbial population of broilers	Caldwell, David; Duong, Tri; Lee, Jason	Poultry Science
Effect of Planting Date, Latitude, and Environmental Factors On Choice of Maturity Group In Mid-South Soybean Production	Miller, Travis	Soil & Crop Sciences
Effects of crop rotation and irrigation on cotton infested with Verticillium wilt	Wheeler, Terry	Lubbock Center
Effects of Distiller's Grain Fat Content and Treatment With Enzymes On Utilization of Distiller's Grains By Beef Cattle	Ponce, Christian	Amarillo Center
Efficacy of Several Products and Rotations for Managing Thrips	Heinz, Kevin	Entomology
Endogenous Synthesis and Nutritional Needs of Glycine in Sow-Reared Piglets	Savell, Jeffrey; Wu, Guoyao	Animal Science

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End-Use Quality Evaluation of Texas Wheat 2013-2014	Awika, Joseph; Ibrahim, Amir; Rudd, Jackie	Soil & Crop Sciences
Engineering Lemons for Resistance To Bacterial & Fungal Pathogens	Mirkov, Theodore	Weslaco Center
Estimating economic return of transgenic insect protection in corn based on yield potential, benefits from insect control, and input costs under different degrees of water availability	Brewer, Michael	Corpus Christi Center
Evaluation enzyme combinations on growth performance and ileal digestible energy	Lee, Jason	Poultry Science
Evaluation of active RFID technology to quantify feeding behavior traits and predict feed intake in growing beef cattle	Carstens, Gordon; Pinchak, William; Tedeschi, Luis	Animal Science
Evaluation of boll rot introduced by boll-feeding stink bugs in South Texas	Brewer, Michael	Corpus Christi Center
Evaluation of Cotton Fleahopper Damage Potential and Crop Response to Injury under Variable Nitrogen Fertility Levels	Parajulee, Megha	Lubbock Center
Evaluation of Full Term Broiler Performance In Birds Fed Diets Prepared With King Technia Sodium Buyrate (500 G Tonne)	Bailey, Christopher	Poultry Science
Evaluation of Hemicell Products with High Dose Monteban in Broiler Chickens	Lee, Jason	Poultry Science
Evaluation of Late Corn Planting with Early Maturing Hybrids in Texas High Plains	Xue, Qingwu	Amarillo Center
Evaluation of Multiple Vitamin D Levels As Delivered In the Feed Via Two Products In Male Broilers On Performance Parameters	Lee, Jason	Poultry Science
Evaluation of root characteristics in corn genotypes under drought stress	Marek, Thomas; Xue, Qingwu	Amarillo Center
Evaluation of the effects of various ionophores on broiler chicken performance parameters and carcass yield following day-of-age coccidiosis vaccination.	Lee, Jason	Poultry Science
Evaluation of xylanase inclusion on ileal digestible energy and growth performance of commercial broilers	Lee, Jason	Poultry Science

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Exhibit 5 - Crush & Extract and Harvest of Existing Acreage	Miller, Travis	Soil & Crop Sciences
Expanding the Genetic Base in Upland Cotton	Smith, C	Soil & Crop Sciences
Expand'n Gro Garden Soil-Plant Growth Evaluation - Longevity Global Gardens Trail Protocol	White, Richard	Soil & Crop Sciences
Exploiting Fungal Endophytes in Cotton for Effective Arthropod Management	Sword, Gregory	Entomology
Flagship Cotton Endophyte Collaboration	Sword, Gregory	Entomology
Food Use Trials	Landivar, Juan	Weslaco Center
Genetic and Chemical Intervention of Ros Signaling Pathways Affecting Development and Pathogenicity of Sclerotinia	Dickman, Martin	Plant Pathology & Microbiology
Genetic Characterization of an Emerging Aphid Pest in Sorghum	Medina, Raul	Entomology
Genomic Selection for Improved Fertility of Dairy Cows With Emphasis On Cyclicity and Pregnancy	Pinedo, Pablo	Amarillo Center
Genomic Selection To Enhance Heterosis In Sorghum	Klein, Patricia; Mullet, John; Peterson, Gary; Rooney, William	Horticultural Sciences
Ground-based Technologies for Cotton Root Rot Control	Thomasson, John	Biological And Agricultural Engineering
Improving Catfish Broodstock Management by Manipulating Diet, Stocking Densities, and Sex Ratios	Gatlin, Delbert	Wildlife & Fisheries Science
Improving Cotton2K Model Performance through Variety-Specific Calibration	Rajan, Nithya	Vernon Center
Improving East Texas Cotton	Hague, Steven; Smith, C. Wayne; Stelly, David	Soil & Crop Sciences
Improving West Texas Cotton	Dever, Jane; Wheeler, Terry; Wright, Robert	Lubbock Center
Influence of Agrisure Artesian Water-Optimization Alleles On Hybrid Performance & Response To Quilt Xcel Fungicide & Water	Bell, Jourdan; Xue, Qingwu	Amarillo Center
Influence of water quality on weed control by glyphosate	Dotray, Peter;	Lubbock Center
Initiation of an Integrated Regional Response to an Invasive Aphid Pest of Sorghum	Brewer, Michael; Villanueva, Raul; Way, Michael; Woolley, James	Corpus Christi Center
Integrated Approach to Breeding for Enhanced Utilization of West Texas Cottons	Dever, Jane	Lubbock Center

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Integrated Management of Mite-Vectored Virus Diseases of Wheat	Rush, Charles	Amarillo Center
Integrated Management of Mite-Vectored Virus Diseases of Wheat	Rush, Charles	Amarillo Center
Integrated Management Strategies for Aspergillus and Fusarium ear Rots of Corn	Isakeit, Thomas; Shim, Won-Bo	Plant Pathology & Microbiology
Integrating Germplasm from the Sorghum Conversion Program in Elite Breeding	Klein, Patricia; Rooney, William	Agrilife Research
Introgression of Gossypium Germplasm to Increase Genetic Diversity for Cotton Improvement	Stelly, David	Soil & Crop Sciences
John Garang Memorial University of Science and Technology (JG- MUST): A Consortium for Development	Whisenant, Steven	Borlaug Institute For Int'l Agriculture
Long Term Adult Emergence Model Development and 2014 Seasonal Moth Trapping for Real-time Detection of Adult Flights for Southwestern Corn Borer, Western Bean Cutworm, and Fall Armyworm in the Texas Panhandle	Michels, Gerald	Amarillo Center
Low Gossypol Seed Transgenic Field Trial and New Events	Rathore, Keerti	Institute Plant Genomics & Biotechnology
Molecular mapping of genes for drought and heat tolerance in cowpea	Hays, Dirk; Zhang, Hongbin; Zhang, Meiping	Soil & Crop Sciences
Mongolia Livestock Early Warning (LEWS)	Angerer, Jay	Temple Center
National Recovery Plan for Zebra Chip of Potato	Rush, Charles	Amarillo Center
Nutrients Recovery from Ammonium Loaded Belt Press Filtrate by Bio-Physico-Chemical Processes	Ganjegunte Keshava, Murthy	El Paso Center
Off-Station Wheat Variety Trials and Support of Educational Programming in the Texas High Plains	Xue, Qingwu	Amarillo Center
Optimizing Meat Quality From Blast-Chilled Pork	Savell, Jeffrey	Animal Science
Pecan Genetics and Cultivar Development	Lombardini, Leonardo	Horticultural Sciences
Performance Assessment of Experimental Forage Cultivars	Rouquette, Francis	Overton
Physical Model of Lint Cleaning	Thomasson, John	Biological And Agricultural Engineering
Planned Grazing System	Taylor, Charles	San Angelo

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Post-Pelleted Application of Opti-Phos for Broiler Production	Lee, Jason	Poultry Science
Potato Breeding and Cultivar Development in the Southwest	Miller, Julian	Horticultural Sciences
Prenatal Control of Nutritionally-Accelerated Puberty in Heifers	Williams, Gary	Corpus Christi Center
Quantitative Evaluation of Fluid Milk Processors' and Dairy Producers' Generic Promotion Programs	Capps, Oral	Agricultural Economics
Reducing Losses to Wheat Streak Mosaic by Timely Management - #1	Price, Jacob; Rush, Charles	Amarillo Center
Reducing pre-harvest losses from aflatoxin in maize production through integrated breeding and pest management strategies	Brewer, Michael; Isakeit, Thomas; Murray, Seth; Xu, Wenwei	Soil & Crop Sciences
Regulated Cotton and Experimental Herbicide - Na11d1c008, Na12d1c007, and Na12k1a001	Dotray, Peter	Lubbock Center
Regulation of tomato cell death by the protein kinase Adi3 during resistance to Pseudomonas syringae	Devarenne, Timothy	Biochemistry & Biophysics
Relationship Between Vbg2000 Beef Carcass Grading Camera Color Thresholds for Dark-Cutter Beef and Flavor Profile	Savell, Jeffrey	Animal Science
Remote Livestock Censusing	Ansley, R; Walker, John	Vernon Center
Resilience and Vulnerability of Beef Cattle Production in the Southern Great Plains under changing Climate, Land Use and Markets	Marek, Thomas	Amarillo Center
Rice Varietal - Producers of Texas	Tabien, Rodante	Beaumont Center
Root-knot nematode management: Field testing genotypes for resistance	Woodward, Jason	Lubbock Center
Root-specific promoters from cotton	Rathore, Keerti	Institute Plant Genomics & Biotechnology
Screen experimental lines and segregating populations in greenhouse pots to evaluate resistance/susceptibility to cotton Root-knot Nematode	Wheeler, Terry	Lubbock Center
Screening for Genotype X Drought Interactions	Hague, Steven	Soil & Crop Sciences
Semi-Confinement Beef Cow-Calf Production	Cross, H Russell	Animal Science

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Short- and full-season corn germplasm for grain and silage production in Texas.	Xu, Wenwei	Lubbock Center
Shrimp Nutrition and Feeds	Lawrence, Addison	Corpus Christi Center
South, Central, and Northeast Texas Wheat Breeding Program	Ibrahim, Amir	Soil & Crop Sciences
Targeting Consistently Maturing Cotton: Controlling Fiber Trait Variability Across Maturity Levels	Fernandez, Carlos; Dever, Jane	Corpus Christi Center
Texas Winter Wheat Breeding Program: High Plains and Rolling Plains - #12	Rudd, Jackie	Amarillo Center
The effects of an embedded source of butyric acid (ButiPEARL) during the pre-lay and laying period of Hy-Line W-36 hens when included in diets from 15 to 60 weeks of age	Carey, John	Poultry Science
The Origin and Evolution of Y Chromosomes In Caricaceae	Yu, Qingyi	Weslaco Center
Use of ground juniper trees as a roughage source in lamb feed lot diets	Whitney, Travis	San Angelo
Using AG-CARES to Enhance Cotton Production and Profitability for the Texas Southern High Plains	Keeling, Jack	Lubbock Center
1110 University Protocol for Evaluating Field Efficacy of Hercule,1, Yieldgard Corn Borer & BT11XMIR162 Deployed Against Corn	Porter, Robert	Entomology
Americot DGT Cultivar Evaluation - College Station	Morgan, Gaylon	Soil And Crop Sciences
Assessment of non-Bt strip refuge protection from pollen from nearby block-planted Bt corn	Bynum, Edsel; Porter, Robert; Vandiver, Monti	Entomology
Beef Quality Assurance Educational Programs	Gill, Ronald	Animal Science
Cell Phone App Supporting Cotton Insect Pest Management	Allen, Charles	Entomology
Characterization and molecular detection of cassava mosaic begomoviruses in Zambia	Alabi, Olufemi	Plant Pathology And Microbiology
Cotton Incorporated - Cotton Specialist Large-Plot Rep. Variety Evaluation - TX	Kelley, Mark	Soil And Crop Sciences
Cotton Incorporated - Cotton Specialists Partnership: Large-Plot, Replicated Variety Evaluations - TX Coastal Bend & Blacklands	Morgan, Gaylon	Soil And Crop Sciences

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Cotton Management Systems for the Rolling Plains of Texas	Morgan, Gaylon	Soil And Crop Sciences
Development and implementation of an industry-wide leaf hairiness rating system	Morgan, Gaylon	Soil And Crop Sciences
Development and Management of Canola for the Great Plains Region	Trostle, Calvin	Soil And Crop Sciences
Dryland Reduced Tillage/No Tillage Cropping Sequences for the Texas South Plains	Trostle, Calvin	Soil And Crop Sciences
Effects of Cotton Genotypes and other Management Practices on the Expression of Fusarium Wilt caused by Fusarium oxysporum f. sp. vasinfectum race 1 (FOV1)	Woodward, Jason	Plant Pathology And Microbiology
Effects of the Introduction of Feed Grains into Mid-South Soybean Production Systems	Neely, Clark	Soil And Crop Sciences
Evaluation of Changing Conditions on Irrigated Crop Production in the Texas High Plains	Amosson, Stephen	Agricultural Economics
Evaluation of Cotton Yield, Quality, and Plant Growth Response to Soil-Applied Potassium in the Blacklands, Gulf Coast, and High Plains	McFarland, Mark	Soil And Crop Sciences
Evaluation of Nematode Management Seed Treatments in Cotton	Woodward, Jason	Plant Pathology And Microbiology
Evaluation of PCM4 Hard Red Winter Wheat Lines in the Rolling Plains and Blacklands of Texas for Adaptation and Performance	Neely, Clark	Soil And Crop Sciences
Evaluation of RKN resistant candidate varieties in moderate to high RKN fields.	Woodward, Jason	Plant Pathology And Microbiology
Field Evaluation of AgraBurst for Corn and Cotton Production	McFarland, Mark	Soil And Crop Sciences
Improvement and Implementation of Organic Pecan Systems in the Southeastern US	Ragsdale, David	Entomology
Improving Soil Quality to Increase Yield and Reduce Diseases in Organic Rice Production	Anderson, David	Agricultural Economics
Optimizing Grain Sorghum Seeding Rates in the Texas Blacklands	Schnell, Ronnie	Soil And Crop Sciences
Pest Detection / Rice Pest Survey	Jo, Young-Ki	Plant Pathology And Microbiology

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Phytophthora ramorum Nursery Survey/Farm Bill	Appel, David	Plant Pathology And Microbiology
Premier Cotton Extension Education Program to Enable Producers to Effectively Manage Technology	Kelley, Mark; Woodward, Jason	Soil And Crop Sciences
Seed Treatment - SP26966 AR83685/Cotton/Thrips & Nematodes	Woodward, Jason	Plant Pathology And Microbiology
Specialty Crop Block Grant Program - Farm Bill - Pecan Screening Nursery for Cotton Root Rot Resistance	Appel, David	Plant Pathology And Microbiology
Statewide Cotton Educational and Applied Research Program for Texas	Morgan, Gaylon	Soil And Crop Sciences
Sustainable Agriculture Research and Education (SARE) Professional Development Program (PDP) Ch. 3	Boellstorff, Diane	Soil And Crop Sciences
Systems Agronomic and Economic Evaluation of Cotton Varieties	Kelley, Mark	Soil And Crop Sciences
Texas Panhandle Cotton Variety Trials	Kelley, Mark	Soil And Crop Sciences
The Cotton Marketing Planner Newsletter Project	Robinson, John	Agricultural Economics
The Effects of Applying Foliar Zinc to Meet the Plant's Nutrient Requirement	Doederlein, Thomas	Entomology
Thrips Management in Texas High Plains Cotton	Barman, Apurba	Entomology
Treatment of Pierce's Disease with Phage	Gonzalez, Carlos	Plant Pathology And Microbiology
Integrating Spatial Educational Experiences (ISEE) - Mapping a New Approach to Teaching and Learning Soil Science	Morgan, Cristine	Soil & Crop Sciences
Partnership in Graduate Education: Addressing the Need for Cotton Entomologists	Brewer, Michael	Corpus Christi Center
Farm Level Policy Analyses of Implementation Options for the 2013 Farm Bill	Richardson, James	Agricultural Economics
Identifying Superior Pierce's Disease Resistant Grape Varieties and Rootstocks	Kamas, James	Horticultural Sciences
Measuring Economic Efficiency in the Floriculture Production Value Chain	Hall, Charles	Horticultural Sciences

Current Research Projects Related to the Feeding the World Grand Challenge

Long Title	Researcher	Primary Unit
Development of Specific Monoclonal Antibodies for Quantification of Antigen and Development of Antigen-Quantification Elisa for	Berghman, Luc	Poultry Science
Effects of Dairy Ingredients On Gut Microbiome and Gut Health	Walzem, Rosemary	Poultry Science
Phosphorylation and Ubiquitination of Immune Sensory Complexes In Innate Immune Signaling	Shan, Libo	Plant Pathology & Microbiology
Development of Guidance To Ensure A Risk-Informed Planning Process and Appropriate Decision Making for Use By SLTT	Beckham, Tammy	Institute For Infectious Animal Diseases
Enhanced Passive Surveillance (EPS) Pilot Project	Beckham, Tammy	Institute For Infectious Animal Diseases
Toward Large-Scale Enhanced Passive Surveillance	Beckham, Tammy	Institute For Infectious Animal Diseases
Development of molecular diagnostics tools for detection of Cry1Ac/Cry1Ab (Bt) resistance in bollworm (H. zea)	Pietrantonio, Patricia	Entomology
Effect of Electrostatic Sprayer in the Coverage of Almonds with Organic Chico Wash Antimicrobial Solution	Castillo, Alejandro	Animal Science
The impacts of cover crops and management-intensive grazing management with no inorganic inputs on soil chemical, physical, and biological properties and their relationships with nutrient cycling, soil biological activity, soil water availability, and pla	Teague, William	Vernon Center
TxDoT Native Plant Integration Program for South, Central and West Texas	Muir, James	Stephenville
Validating Soil Interpretations On Regionally Important Soil	Feagley, Sam	Soil And Crop Sciences
Crop Insurance Risk Management Education for Underserved Populations in Texas	Peterson, Ricky	Family Development & Resource Management
Horticultural Technician Certification Program	Fry, Jayla; Whittlesey, Lisa	Horticultural Sciences