

GEORGIA PEANUT COMMISSION
2021-2022 Research Projects
AS OF: 3/10/2021

UGA Tifton Campus			APPROVED
Project Number	Project Title	Investigator(s)	2021-22
CPES-1-82/22	The Georgia Peanut Evaluation Program	Branch	30,000
UGAT-26-19/22	Long-term Germplasm Enhancement and Development of DNA Molecular Marker Resources for Peanut	N. Brown	30,000
	Evaluation and Development of High-Throughput Phenotyping Technologies for Peanut	N. Brown	57,465.90
CPES-29-86/22	Development and Evaluation of Cultivars with Improved Disease Resistances to Increase On-Farm Profitability	Holbrook	30,000
CPES-48-89/22	Adaptation of New Fungicides and Application Strategies for Control of Early & Late Leaf Spot of Peanut	Culbreath	8,000
CPES-161-09/22	Fine Mapping and Candidate Gene Analysis of Novel QTLs for Resistance to TSWV and Leaf Spots in Peanuts	Guo/Culbreath	20,000
CPES-173-11/22	Effect of In-Furrow Seed and Foliar Insecticide Treatments on Tomato Spotted Wilt and Yield in New TSWV Resistant Cultivars	Culbreath	8,000
UGAT-12-18/22	Using Remote Sensing to Map In-Field Variability of Peanut Maturity	Vellidis	10,000
UGAT-31-21/22	Incorporating Volumetric Water Content (Capacitance) Sensors into the Irrigator Pro-Based Irrigation Scheduling Tool	Vellidis	18,900
UGAT-11-15/22	Biology and Management of Peanut Burrower Bug in Georgia	Abney	8,300
UGAT-16-20/22	Rootworm Population Dynamics and Management	Abney	8,100
UGAT-27-19/22	The Effect of Speed on Planter Performance for Furrow Depth and Seed Placement	Tubbs	11,680
UGAT-32-21/22	Evaluation of In-Furrow Products on Peanut Seedling Emergence and Root Nodulation	Tubbs	12,000
UGAT-15-16/22	Fungicide Sensitivity of <i>Sclerotium Rolfsii</i> (Causing White Mold) From Peanut in Georgia	Breneman	18,830
UGA-33-21/22	Transcriptional Responses in Wild Peanut Genotypes in Comparison with GA-06G Following Thrips-Mediated TSWV Transmission	Srinivasan	7,610
UGAT-18-20/22	Can plant growth regulators enhance peanut seed germination and stand establishment? Year 2	Grey	15,000
UGAT-34-21/22	Compare High Oleic Cultivars for Physiological Trait Relationships for Seed Germination and Vigor with Respect to Harvest Timing: Year 1	Grey	10,000
UGAT-28-19/22	Determination and Comparison of Timing For Acquisition of Physiological Quality of Seeds from Georgia-06G and Georgia-16HO Year 3	Pilon	15,000
UGAT-29-19/22	Evaluation of Soil Texture Versus Planter Parameters for Uniform Crop Emergence in Peanut	Porter	20,000
UGAT-19-20/22	Adjusting In-Season Trigger Levels for Maximizing Peanut Growth and Yield	Porter	18,000
UGAT-25-18/22	Establishment of a long term Sustainability Program for Peanut Production in Georgia Utilizing the Field to Market Field Print Calculator 2021	Porter	18,000
UGAT-30-19/22	Nonchemical-based Sprays for Triggering Host Resistance: A New Strategy to Manage Spotted Wilt Virus	Bag	15,000
UGAT-20-20/22	To Investigate the Re-emergence of Tomato Spotted Wilt Orthospovirus and its Role in Increasing Yield Loss on Peanuts Using Next-Generation Sequencing and Genomic Surveillance in GA	Bag	20,000

UGA Tifton Campus

Project Number	Project Title	Investigator(s)	FY 2021-22
UGAT-35-21/22	Precision Breeding for Multiple Disease Resistance	Ozias-Akins	21,300
UGAT-21-20/22	Precision Peanut Re-Planting with a Small Multi-Purpose Autonomous Rover	Rains	16,500
UGAT-36-21/22	Molecular Characterization of Aspergillus flavus isolates from Peanut Seeds in Georgia and their Sensitivity to Different Seed Treating Fungicides	Ali	10,000
UGAT-37-21/22	Investigating and Implementing Precision Ag Practices for Site-Specific Nutrient Management in Peanuts	Virk	20,000
UGAT-38-21/22	Investigating Spray Parameters and Precision Technologies to Improve Fungicide Applications in Peanuts	Virk	28,000
Total CPES/UGAT			\$ 505,685.90

Extension Service

Project Number	Project Title	Investigator(s)	APPROVED 2021-22
CES-12-87/22	University of Georgia Cooperative Extension County Agent Programs	Monfort	21,000
CES-59-15/22	University of Georgia Agronomic Research & Extension Programs to Address Economic Sustainability of Peanut Production	Monfort	42,000
CES-60-16/22	Georgia Peanut Achievement Club for Recognizing Whole-Farm Peanut Yields	Monfort	5,000
CES-61-21/22	Peanut Storage Conditions Effect on Seed Respiration and Germination	Monfort	20,000
Total CES			\$ 88,000.00

Griffin Station

Project Number	Project Title	Investigator(s)	APPROVED 2021-22
GS-50-20/22	Impact of Seed Rate on Peanut Water-Use Efficiency and Yield	Leclerc	25,000
Total GS			\$ 25,000.00

Athens Station

Project Number	Project Title	Investigator(s)	APPROVED 2021-22
UGA-42-16/22	Introgression and Utilization of Pest and Disease Resistance Genes from Wild Species for Peanut Improvement	D. Bertioli	29,900
UGA-43-20/22	Selection of A. stenosperma-derived Advanced Lines with Strong Resistance to LLS Using Association Analyses	S. Bertioli	30,000
UGA-43-18/22	Utilizing New Wild Arachis Sources of Resistance to White Mold for Peanut Improvement	S. Bertioli	26,000
UGA-44-20/22	Introgression of a New Source of Strong Resistance to Root Knot Nematode from the Wild Species A. stenosperma into Elite Peanut Lines	D. Bertioli	20,000.00
UGA-48-19/22	Test the Combined Effect of High Calcium and Biocontrol in Reducing Aflatoxin	Yang	6,000
Total AS			\$ 111,900.00

UGA-ENG

Project Number	Project Title	Investigator(s)	APPROVED 2021-22
UGA-ENG	Engineering Intern		10,000
UGA-ENG	Senior Design Teams		10,000
UGA-ENG-21/22	Study for Production Implementation of "e-Nose" to Detect and Classify Peanut Kernels Quality	Camelio	25,000
Total UGAENG			\$ 45,000.00

ABAC			APPROVED
Project Number	Project Title	Investigator(s)	2021-22
ABAC-01-19/22	A Multi-Economic Analysis Program to Enhance the Sustainability of Georgia Peanut Producers	Fletcher	25,000
ABAC-02-19/22	Analysis of Potential Impacts of the 2023 Farm Bill on Georgia Peanut Producers	Fletcher	25,000
ABAC-03-19/22	Crop Insurance as a Risk Management Strategy for Georgia Peanut Producers: An Investigation of the Effectiveness of Crop Insurance as a Safety Net for Peanut Producers from a Whole Farm Perspective	Luke-Morgan	17,650
Total ABAC			\$ 67,650.00

Other Projects			APPROVED
Project Number	Project Title	Investigator(s)	2021-22
NPF-01-00/22	The Peanut Foundation	S. Brown	18,000
FVSU-01-21/22	Predicting Harvest Maturity and Enhancing Yield and Quality of Peanuts Using Sensor-based System and Economic Appraisal	Mahapatra	15,000
	The Peanut Institute		10,000
Total for Other Projects			\$ 43,000.00

**Total Research
Funding for \$ 886,235.90
FY 2021-22**