



BILLING RATES - FY 21/22

DEPARTMENT NAME :
Edisto Research and Education Center

VICE-PRESIDENT AREA :
PSA

DESCRIPTION OF COMMODITY OR SERVICE :	UNIT OF BILLING	FY 21/22 RATE	CUSTOMERS BEING SERVED
USE OF FACILITIES:			
Use of Auditorium - 200 people	per day	\$250.00	Non-University
Use of Conference Room - 30 people	per day	\$100.00	Non-University
Use of Grounds - Up to 100 people	per day	\$200.00	Non-University
Use of Grounds - 101-500 people	per day	\$300.00	Non-University
Use of Grounds - > 500 people	per day	\$500.00	Non-University
Use of Laboratory space	per year/sq ft	\$28.30	Non-University
Use of Administrative bldg	per year/sq ft	\$15.85	Non-University
Use of Field laboratories	per year/sq ft	\$14.90	Non-University
Use of Glasshouse	per year/bay	\$2,400.00	Non-University
Use of Bull Test Sale Barn for Cattle or Other Animals	per day	\$1,500.00	Non-University
Use of Bull Test Sale Barn No Cattle or Animals	per day	\$250.00	Non-University



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SALARY:			
Research Technician	per hr	25	Non-University
Farm Support Technician	per hr	19	Non-University
Maintenance Support Technician	per hr	21	Non-University
Professional Faculty	per day	500	Non-University
Research Technician	per day	175	Non-University
Clerical	per day	140	Non-University
OFFICE / VEHICLE:			
Use of Student Office	per day	5	Non-University
Use of Professional Office	per day	5	Non-University
Use of Lab	per day	100	Non-University
Vehicle Use	per day	50	Non-University
Field Supplies	varies	varies	Non-University



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ROW CROP PRODUCTION FEES:			
corn, soybean, wheat	per acre	600	Non-University
corn, soybean, wheat (Irrigated)	per acre	900	Non-University
cotton, peanuts	per acre	900	Non-University
cotton, peanuts (Irrigated)	per acre	1150	Non-University
Tobacco	per acre	5500	Non-University
Tobacco irrigated	per acre	5750	Non-University
VEGETABLE PRODUCTION FEES:			
Sweet potato, Southern peas, Sweet corn, Spring cucumbers	per acre	2500	
Lima beans, Snap beans, Fall cucumbers, Yellow squash, Greens	per acre	3500	



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Watermelon on plastic, Cantaloupe on plastic, Cabbage, Collards	per acre	5000	
Tomatoes & pepper on plastic, Okra, green onions	per acre	11500	
Strawberry on plastic	per acre	20000	
CATTLE FEES:			
Use of any cow in the Brood Herd	per day	3.4	Non-University
Use of any "young stock" in the beef cattle herd	per day	0.57	Non-University
SENSOR AND AUTOMATION LAB:			
Unmanned Aerial Vehicle (UAV)			
Design			
Fabrication & Testing*			
Flight Training	per hour	392.32	University and Non-university



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Operation*	per hour	1471.19	University and Non-university
Download and Data Analysis	per hour	91.95	University and Non-university
Educational Program**	per hour	61.3	University and Non-university
PCB FABRICATION:		91.95	University and Non-university
Consultation	per hour	61.3	University and Non-university
Design - Hardware+	per hour		
Design - Firmware+	per hour		
Fabrication@		100	University and Non-university
Testing	per hour	280	University and Non-university
Moddification++		280	University and Non-university
Bulk Fabrication (contact: jmaja@clemson.edu)		650	University and Non-university
* The Sensor & Automation Lab will purchase all parts. Purchaser/Customer will reimburse cost of parts and delivery.		75	University and Non-university
** Excluding travel from Edisto-REC to destination, meals, lodging and additional travel expenses, e.g., Hotel and/or Air ticket.			



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+\$75.00/hr. thereafter			
@\$81.00/hr. thereafter			
<p>++If based on customer changes, will be considered as new design and charges for Design and fabrication will be added to the total cost of the project.</p>			
LAB FEES FOR qPCR WORK:			
qPCR	per run	25	Clemson University
qPCR reagents (non-multiplex; multiplex: ask for quote)	per sample	2	Clemson University
qPCR	per run	37.5	External University
qPCR reagents (non-multiplex; multiplex: ask for quote)	per sample	3	External University
qPCR	per run	50	Industry



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qPCR reagents (non-multiplex; multiplex: ask for quote)	per sample	4	Industry
qPCR consulting (primer design)	per hour	50	Clemson University
qPCR consulting (primer design)	per hour	75	External University
qPCR consulting (primer design)	per hour	100	Industry
CROP VARIETY EVALUATION (Corn, Soybean, Small Grain, Sorghum):			
Single Location (corn, soybean, small grain, sorghum) per variety per location			
Dry land	per variety per location	125	Industry
Irrigated	per variety per location	250	Industry
ENTOMOLOGY TRIALS (Cotton, Soybean):			
Tier 1 - Basic Trial requirements	per treatment*	750	Industry



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Planting/trial set up, plot spraying and maintenance, limited data collection Harvest data not required or optional Tier 2 - Intermediate requirements	per treatment*	1000	Industry
Planting/trial set up, plot spraying and maintenance, moderate data collection Harvest data optional or requested Tier 3 - Advanced trial requirements	per treatment*	1250	Industry
Planting/trial set up, plot spraying and maintenance, intensive data collection Harvest data requested or required			

*Assuming 4 replications per treatment per trial location; add \$250 for each additional replication

Data collection details:

limited – one or two evaluation/sample dates; insect or injury counts primarily

moderate – two or three evaluation/sample dates; insect or injury counts plus additional data collection, such as stand counts, plant heights, node counts, NDVI estimates, or additional measurements/data collection



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intensive – three or more evaluation/sample dates; insect or injury counts plus additional data collection, such as stand counts, plant heights, node counts, NDVI estimates, plant mapping, or additional measurements/data collection			
PLANT PATHOLOGY (Corn, Cotton, Soybean, Grain Sorghum):			
Fungicide Trials:			
Soybean - a: Base charge is \$720 per entry for 4 replications including all needed fertilizers, herbicides and other pesticides. Includes yield and basic plant growth information such as plant height. Base charge includes 2 foliar fungicide applications and in field foliar ratings the day before each fungicide application and one additional foliar rating. Each additional foliar rating is \$50 per entry. Additional fungicide applications are \$100 per application. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally	per entry	720	Industry
Soybean - b: Evaluation of leaves for soybean rust done using a dissecting scope.	per entry per	25	Industry



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<p>Cotton: Base charge is \$750 per entry for 4 replications including all needed needed fertilizers, herbicides and other pesticides. Includes yield and basic plant growth information such as plant height. Base charge includes 2 foliar fungicide applications and in-field foliar ratings the day before each fungicide application and one additional foliar rating. Each additional foliar rating is \$50 per entry. Additional fungicide applications are \$100 per application. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally.</p>	per entry	750	Industry
<p>Corn - a: Base charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Includes yield and basic plant growth information such as plant height. Base charge includes 2 foliar fungicide applications and in-field foliar ratings the day before each fungicide application and one additional foliar rating. Each additional foliar rating is \$50 per entry. Additional fungicide applications are \$100 per application. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally.</p>	per entry	800	Industry
<p>Corn - b. Laboratory assesment for disease identifiecanton and severity</p>	per entry per	25	Industry
<p>Grain sorghum-Base charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Includes yield and basic plant growth information such as plant height. Base charge includes 2 foliar fungicide applications and in-field foliar ratings the day before each fungicide application and one additional foliar rating. Each additional foliar rating is \$50 per entry. Additional fungicide applications are \$100 per application. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally.</p>	per entry	650	Industry



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Nematicide trials:

Soybean a: Base charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height. Base charge includes 1 in-furrow granular or liquid nematicide application. Additional in-furrow, side-dressed or foliar nematicide applications are \$100 per application per entry.

per entry

720

Industry

Soybean b. Direct measurements for determinations of nematode population densities are \$30 per replication with the exception of SCN females. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Galling indices are \$10 per replication. Extraction and enumeration of SCN females at 5 weeks after planting are \$35 per replication. Charges are for each time such data is gathered. For example, if soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.

per replication

30

Industry



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<p>Cotton a. a. Base charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height. Base charge includes 1 in-furrow granular or liquid nematicide application. Additional in-furrow, side-dressed or foliar nematicide applications are \$100 per application per entry.</p>	per entry	750	Industry
<p>Cotton b. b. Direct measurements for determinations of nematode population densities are \$30 per replication. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Gallig indices are \$10 per replication. Charges are for each time such data is gathered. For example, if soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.</p>	per replication	30	Industry
<p>Corn a. Base charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height. Base charge includes 1 in-furrow granular or liquid nematicide application. Additional in-furrow, side-dressed or foliar nematicide applications are \$100 per application per entry.</p>	per replication	800	Industry



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<p>Corn b. Direct measurements for determinations of nematode population densities. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Galling indices are \$10 per replication. Charges are for each time such data is gathered. For example, if soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.</p>	per replication	30	Industry
<p>Grain Sorghum a. Base charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height. Base charge includes 1 in-furrow granular or liquid nematicide application. Additional in-furrow, side-dressed or foliar nematicide applications are \$100 per application per entry.</p>	per entry	650	Industry
<p>Grain Sorghum b. Direct measurements for determinations of nematode population densities are \$30 per replication. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Galling indices are \$10 per replication. Charges are for each time such data is gathered. For example, if soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.</p>	per replication	30	Industry



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Variety Evaluations for Resistance to Nematodes:			
Soybean a. Charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 35-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height.	per entry	520	Industry
Sobyea b. Direct measurements for determinations of nematode population densities. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Galling indices are \$10 per plot. Extraction and enumeration of SCN females at 5 weeks after planting are \$35 per replication. Charges are for each time such data is gathered. If soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.	per replication	30	Industry
Cotton a. Charge \$540 per entry base charge for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height.	per entry	540	Industry



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<p>Cotton b. Direct measurements for determinations of nematode population densities. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Galling indices are \$10 per plot. Charges are for each time such data is gathered. If soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.</p>	per replication	30	Industry
<p>Corn a. Charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height.</p>	per entry	600	Industry
<p>Corn b. Direct measurements for determinations of nematode population densities. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Galling indices are \$10 per plot. Charges are for each time such data is gathered. If soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.</p>	per replicationentry	\$30.00	Industry



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Grain Sorghum a. Charge is for 4 replications including all needed fertilizers, herbicides and other pesticides. Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally. Includes yield and basic plant growth information such as plant height.	per entry	\$600.00	Industry
Grain Sorghum b. Direct measurements for determinations of nematode population densitie. For example, any soil samples taken are \$30 per replication; roots dug and run through a mist chamber are \$30 per replication. Gallig indices are \$10 per plot. Charges are for each time such data is gathered. If soil samples are collected at planting, midseason and harvest then the charge per replication is \$90.	per replication	\$30.00	Industry
Peanut Evaluations			
Peanut Field trials for pesticides/inoculants or seed treatments. The basic data package can include the following (increased numbers of assessments are pro-rated)	per treatment per rep per locaiton	\$250.00	Industry
Disease ratings (1 LLS, ! WM, 2 TSWV, 2 Thrips damage)			
plant health/vigor (2 ratings)			
emergence/stand counts			



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taproot nodules			
NDVI (2X)			
Yield			
No yield from field trial subtract \$62.50 per treatment/rep/location			
Peanut Field Trials Additional data offered:			
Foliar insect counts (2X)	per trt/rep/loc.	\$62.50	Industry
Soil insect counts (1X)	per trt/rep/loc.	\$62.50	Industry
Grade data	per trt/rep/loc.	\$62.50	Industry
Irrigation Required	per trt/location	100	Industry
Maturity Data (1X) (pod mesocarp)	per trt/rep/loc.	15	Industry
Greenhouse tests (no yield):	per trt/rep	125	Industry
Greenhouse tests (with yield):	per trt/rep	175	Industry



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			Industry
Peanut Combine Use	per acre	100	
Clemson University Precision Agriculture Engineering Service Agreement Costs			
Miscellaneous			
Travel to site, each trip required	mi, round trip	2	Industry
Spatial data analytics, ANOVA	test	250	Industry
Non-spatial data analytics, ANOVA	test	100	Industry
Crop mapping, in-season			
Greenseeker mapping			



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- Greenseeker delivery	mi, round trip	5	Industry
- Greenseeker mapping, continuous	1,000 row-ft	10	Industry
- Greenseeker mapping, grid	position	10	Industry
Plant vigor mapping			
- Plant vigor mapping delivery	mi, round trip	5	Industry
- Plant vigor mapping, continuous	1,000 row-ft	10	Industry
- Plant vigor mapping, grid/plot	point	10	Industry
Plant stand counts	position	10	Industry
Plant heights	position	10	Industry
Cotton harvest			
Cotton harvest / yield mapping, strips	ac	100	Industry
- Picker delivery	mi, round trip	10	Industry
Cotton harvest / weighing, 2-row plots	plot	10	Industry



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- Combine delivery	mi, round trip	10	Industry
- Quality sampling	sample	4	Industry
Peanut harvest			
Peanut combining / yield mapping, strips	ac	50	Industry
- Combine delivery	mi, round trip	10	Industry
Peanut combining / weighing, 2-row plots	plot	5	Industry
- Combine delivery	mi, round trip	10	Industry
- Grade sampling	sample	2	Industry
Peanut digging	ac	25	Industry
- Digger delivery	mi, round trip	5	Industry
- Digging loss evaluation, 2 row-ft areas	sample	40	Industry
- Digging loss evaluation, 4 row-ft areas	sample	60	Industry
- Digging loss evaluation, 8 row-ft areas	sample	80	Industry
Peanut sample analysis			



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- Pod moisture sampling/lab analysis	sample	10	Industry
- Kernel moisture sampling/lab analysis	sample	15	Industry
Soil Mapping			
Soil EC	ac		
- EC mapping, 50 ft resolution	ac	10	Industry
- EC mapping, 25 ft resolution	mi, round trip	20	Industry
- Veris delivery	sample	3	Industry
Grid soil sampling, or see below	ac	25	Industry
- 1/4 ac resolution	ac	100	Industry
- 1/2 ac resolution	ac	50	Industry
- 1 ac resolution	ac	25	Industry
- 2.5 ac resolution	ac	10	Industry
- 5 ac resolution	zone	5	Industry
Zone composite sampling	sample	30	Industry



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Soil moisture content lab analysis	sample	5	Industry
Soil texture lab analysis		10	Industry
Analyses			
Standard Routine Soil Test	Per sample	10	Industry
Standard Routine Plant Test	Per sample	10	Industry
Organic Matter	Per sample	7	Industry
Nitrite Nitrogen	Per sample	5	Industry
Ammonium Nitrogen	Per sample	5	Industry
Nitrate Nitrogen	Per sample	5	Industry
Extractable Sulfate Sulfur	Per sample	5	Industry
pH	Per sample	3	Industry
Soil Respiration 3-Day CO2-C method	Per sample	25	Industry
Potentially mineralizable nitrogen method	Per sample	15	Industry
Bulk Density	Per sample	10	Industry



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Soil microbial carbon and nitrogen	Per sample	25	Industry
Particulate organic matter	Per sample	5	Industry
Soil dissolved organic carbon	Per sample	8	Industry
Cold and hot water-soluble carbon and nitrogen	Per sample	10	Industry
Permanganate oxidizable carbon	Per sample	10	Industry
Urease activity	Per sample	30	Industry
Beta-glucosidase activity	Per sample	25	Industry
Acid and alkaline phosphatase	Per sample	25	Industry