



BILLING RATES - FY 19/20

DEPARTMENT NAME :
Edisto Research and Education Center

VICE-PRESIDENT AREA :
PSA

DESCRIPTION OF COMMODITY OR SERVICE :	UNIT OF BILLING	FY 19/20 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	\$25.00	Non-University
Farm Support Technician	per hr	\$19.00	Non-University
Maintenance Support Technician	per hr	\$21.00	Non-University
Professional Faculty	per day	\$500.00	Non-University
Research Technician	per day	\$175.00	Non-University
Clerical	per day	\$140.00	Non-University
OFFICE / VEHICLE:			
Use of Student Office	per day	\$5.00	Non-University
Use of Professional Office	per day	\$5.00	Non-University
Use of Lab	per day	\$100.00	Non-University
Vehicle Use	per day	\$50.00	Non-University
Field Supplies	varies		Non-University



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ROW CROP PRODUCTION FEES:			
corn, soybean, wheat	per acre	\$600.00	Non-University
corn, soybean, wheat (Irrigated)	per acre	\$900.00	Non-University
cotton, peanuts	per acre	\$900.00	Non-University
cotton, peanuts (Irrigated)	per acre	\$1,150.00	Non-University
Tobacco	per acre	\$5,500.00	Non-University
Tobacco irrigated	per acre	\$5,750.00	Non-University
VEGETABLE PRODUCTION FEES:			
Sweet potato, Southern peas, Sweet corn, Spring cucun	per acre	\$2,500.00	Non-University
Lima beans, Snap beans, Fall cucumbers, Yellow squas	per acre	\$3,500.00	Non-University
Watermelon on plastic, Cantaloupe on plastic, Cabbage	per acre	\$5,000.00	Non-University
Tomatoes & pepper on plastic, Okra, green onions	per acre	\$11,500.00	Non-University
Strawberry on plastic	per acre	\$20,000.00	Non-University



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CATTLE FEES:			
Use of any cow in the Brood Herd	per day	\$3.40	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)			University and Non-university
Design		\$392.32	University and Non-university
Fabrication & Testing*		\$1,471.19	University and Non-university
Flight Training	per hour	\$91.95	University and Non-university
Operation*	per hour	\$61.30	University and Non-university
Download and Data Analysis	per hour	\$91.95	University and Non-university
Educational Program**	per hour	\$61.30	University and Non-university



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PCB FABRICATION:			
Consultation	per hour	\$100.00	University and Non-university
Design - Hardware+	per hour	\$280.00	University and Non-university
Design - Firmware+	per hour	\$280.00	University and Non-university
Fabrication@		\$650.00	University and Non-university
Testing	per hour	\$75.00	University and Non-university

Modification++

Bulk Fabrication (contact: jmaja@clemson.edu)

* The Sensor & Automation Lab will purchase all parts. Purchaser/Customer will reimburse cost of parts and delivery.

** Excluding travel from Edisto-REC to destination, meals, lodging and additional travel expenses, e.g., Hotel and/or Air ticket.

+\$75.00/hr. thereafter

@\$81.00/hr. thereafter

++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.



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LAB FEES FOR qPCR WORK:			
qPCR	per run	\$25.00	Clemson University
qPCR reagents (non-multiplex; multiplex: ask for quote)	per sample	\$2.00	Clemson University
qPCR	per run	\$37.50	External University
qPCR reagents (non-multiplex; multiplex: ask for quote)	per sample	\$3.00	External University
qPCR	per run	\$50.00	Industry
qPCR reagents (non-multiplex; multiplex: ask for quote)	per sample	\$4.00	Industry
qPCR consulting (primer design)	per hour	\$50.00	Clemson University
qPCR consulting (primer design)	per hour	\$75.00	External University
qPCR consulting (primer design)	per hour	\$100.00	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	\$125.00	Industry
Irrigated	per variety per location	\$250.00	Industry



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ENTOMOLOGY TRIALS (Cotton, Soybean):			
Tier 1 - Basic Trial requirements Planting/trial set up, plot spraying and maintenance, limited data collection Harvest data not required or optional	per treatment*	\$750.00	Industry
Tier 2 - Intermediate requirements Planting/trial set up, plot spraying and maintenance, moderate data collection Harvest data optional or requested	per treatment*	\$1,000.00	Industry
Tier 3 - Advanced trial requirements Planting/trial set up, plot spraying and maintenance, intensive data collection Harvest data requested or required	per treatment*	\$1,250.00	Industry
*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

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



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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	\$720.00	Industry
Soybean - b: Evaluation of leaves for soybean rust done using a dissecting scope .	per entry per date	\$25.00	Industry
Cotton: Base charge is \$750 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	per entry	\$750.00	Industry



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<p>application and one additional foliar rating. Each additional foliar rating is \$50 per entry. Additional fungicide applications are \$100 per application.</p> <p>Each replication will consist of a 4-row plot 50-feet long. Additional rows will be billed proportionally.</p>	per entry	\$800.00	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 per	\$25.00	Industry
<p>Corn - b. Laboratory assesment for disease identifiecation and severity</p>			



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<p>date</p> <p>Grain sorghum</p> <p>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.</p> <p>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>	<p>per entry</p>	<p>\$650.00</p>	<p>Industry</p>
<p>Nematicide trials:</p> <p>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</p>	<p>per entry</p>	<p>\$720.00</p>	<p>Industry</p>



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<p>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> <p>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. Gallling 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.</p>	per replication	\$30.00	Industry
<p>Cotton a. a. Base charge is for 4 replications including all needed fertilizers,</p>	per entry	\$750.00	Industry



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<p>herbicides and other pesticides. Each replication will consist of a 4-row plot</p> <p>50-feet long. Additional rows will be billed proportionally. Includes yield and</p> <p>basic plant growth information such as plant height. Base charge includes</p> <p>1 in-furrow granular or liquid nematicide application. Additional in-furrow,</p> <p>side-dressed or foliar nematicide applications are \$100 per application per</p>	per replication	\$30.00	Industry
<p>entry.</p> <p>Cotton b. Direct measurements for determinations of nematode population densities are \$30 per replication. For example, any soil samples taken are</p>	per replication	\$800.00	Industry
<p>Corn a. Base charge is for 4 replications including all needed fertilizers,</p> <p>herbicides and other pesticides. Each replication will consist of a 4-row plot</p> <p>50-feet long. Additional rows will be billed proportionally. Includes yield and</p> <p>basic plant growth information such as plant height. Base charge includes 1</p> <p>in-furrow granular or liquid nematicide application. Additional in-furrow,</p> <p>side-dressed or foliar nematicide applications are \$100 per application per.</p>			
<p>entry.</p>			



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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.</p> <p>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	\$30.00	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	\$650.00	Industry
<p>Grain Sorghum b. Direct measurements for determinations of nematode</p>	per replication	\$30.00	Industry



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<p>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>			
<p>Variety Evaluations for Resistance to Nematodes:</p>			
<p>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.</p>	per entry	\$520.00	Industry
<p>Soybean 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</p>	per replication	\$30.00	Industry



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<p>planting are \$35 per replication. Charges are for each time such data is gathered. If soil samples are collected at planting, midseason and harvest</p> <p>then the charge per replication is \$90.</p>			
<p>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</p>	per entry	\$540.00	Industry
<p>plant height. Cotton b. Direct measurements for determinations of nematode population densities. For example, any soil samples taken are \$30 per replication; roots dug and</p>	per replication	\$30.00	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	\$600.00	Industry



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<p>corn b. Direct measurements for determinations of nematode population densities. For example, any soil samples taken are</p>	per replicationentry	\$30.00	Industry
<p>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.</p>	per entry	\$600.00	Industry
<p>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. Gallling 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	\$30.00	Industry
<p>Peanut Evaluations</p>			



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Peanut field trials for pesticides/inoculants or seed treatments. The basic data package can include the following (increased numbers of assessments are pro- Disease ratings (1 LLS, 1 WM, 2 TSWV, 2 Thrips damage) plant health/vigor (2 ratings) emergence/stand counts taproot nodules NDVI (2X) Yield No yield from field trial subtract \$62.50 per treatment/rep/location	treatment per rep per loca	\$250.00	Industry
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	\$100.00	Industry
Maturity Data (1X) (pod mesocarp)	per trt/rep/loc.	\$15.00	Industry



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Greenhouse tests (no yield):	per trt/rep	\$125.00	Industry
Greenhouse tests (with yield):	per trt/rep	\$175.00	Industry
			Industry
Clemson University Precision Agriculture Engineering Service Agreement Costs			
Miscellaneous			
Travel to site, each trip required	mi, round trip	\$2.00	Industry
Spatial data analytics, ANOVA	test	\$250.00	Industry
Non-spatial data analytics, ANOVA	test	\$100.00	Industry
Crop mapping, in-season			
Greenseeker mapping			
- Greenseeker delivery	mi, round trip	\$5.00	Industry
- Greenseeker mapping, continous	1,000 row-ft	\$10.00	Industry



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- Greenseeker mapping, grid	position	\$10.00	Industry
Plant vigor mapping			
- Plant vigor mapping delivery	mi, round trip	\$5.00	Industry
- Plant vigor mapping, continuous	1,000 row-ft	\$10.00	Industry
- Plant vigor mapping, grid/plot	point	\$10.00	Industry
Plant stand counts	position	\$10.00	Industry
Plant heights	position	\$10.00	Industry
Cotton harvest			
Cotton harvest / yield mapping, strips	ac	\$100.00	Industry
- Picker delivery	mi, round trip	\$10.00	Industry
Cotton harvest / weighing, 2-row plots	plot	\$10.00	Industry
- Combine delivery	mi, round trip	\$10.00	Industry
- Quality sampling	sample	\$4.00	Industry



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Peanut harvest			
	ac	\$50.00	Industry
Peanut combining / yield mapping, strips			
- Combine delivery	mi, round trip	\$10.00	Industry
	plot	\$5.00	Industry
Peanut combining / weighing, 2-row plots			
- Combine delivery	mi, round trip	\$10.00	Industry
- Grade sampling	sample	\$2.00	Industry
	ac	\$25.00	Industry
Peanut digging			
- Digger delivery	mi, round trip	\$5.00	Industry
- Digging loss evaluation, 2 row-ft areas	sample	\$40.00	Industry
- Digging loss evaluation, 4 row-ft areas	sample	\$60.00	Industry
- Digging loss evaluation, 8 row-ft areas	sample	\$80.00	Industry
Peanut sample analysis			
- Pod moisture sampling/lab analysis	sample	\$10.00	Industry
- Kernel moisture sampling/lab analysis	sample	\$15.00	Industry



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Soil Mapping			
Soil EC	ac		
- EC mapping, 50 ft resolution	ac	\$10.00	Industry
- EC mapping, 25 ft resolution	mi, round trip	\$20.00	Industry
- Veris delivery	sample	\$3.00	Industry
Grid soil sampling, or see below	ac	\$25.00	Industry
- 1/4 ac resolution	ac	\$100.00	Industry
- 1/2 ac resolution	ac	\$50.00	Industry
- 1 ac resolution	ac	\$25.00	Industry
- 2.5 ac resolution	ac	\$10.00	Industry
- 5 ac resolution	zone	\$5.00	Industry
Zone composite sampling	sample	\$30.00	Industry
Soil moisture content lab analysis	sample	\$5.00	Industry
Soil texture lab analysis		\$10.00	Industry