# Please contact Kelly Eisele at (706) 542-2151 or agresch@uga.edu with any questions. Required fields marked by an \* General Information Title \* Utilization of sodium butyrate in beef cattle diets to improve Participating Research Farm \* Georgia Mountain Research and Education Center, Blairsville, Ga. Dates Start Date \* End Date \* 11/06/2019 01/30/2020 CAES Principal Investigator (Required. If not populated, a non-CAES Principal Investigator must be entered.) Stewart, Lawton CAES Secondary Contact

Blackwell, Marrissa ▼



## Primary Area to Which the Project Pertains \*

Research (Replicated Treatments)Extension (Unreplicated Treatments)Teaching

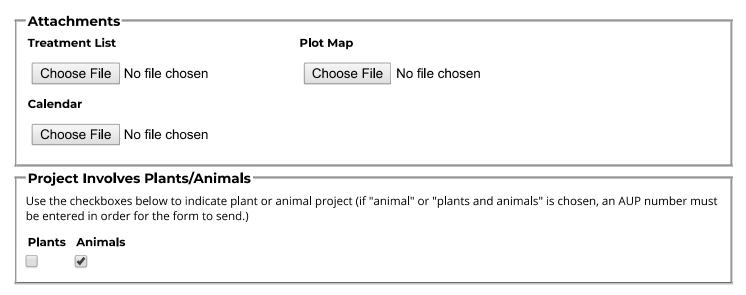
Summary of Project

# **Justification** \* (Maximum of 250 words)

Beef cattle producers maintain their economic livelihood by producing the most pounds of beef in an efficient manner. Given the right genetic stock, nutrition and health are the drivers in maximizing profitability for beef cattle producers. Proper management during the periods of high growth and potential stress can play a key

There is potential merit for sodium butyrate to improve gut health in high stress situations such as post -weaning and shipping. Therefore, the objective of this study is to evaluate if the inclusion of sodium butyrate in the diets of stocker cattle will minimize the impact of shipping stress and improve animal performance of

# Scientist and Station Responsibilities



## **Animal Science Projects**

NOTE: An Animal Use Protocol (AUP) must be completed for each project involving animals, even if no treatments are applied to the animals and no data are collected from the animals. This would include, for example, studies in which animals are used for grazing trials or used to create runoff in field studies.

General Animal Project Info	0
AUP Number *	
2019 10-015-Y1-A0	
Number of Animals	
81	
Description of Animals (sex, bre	eed, etc.)
Cross bred steers and heifer:	
Source of Animals	



### **Final Disposition of Animals**

Return to	Resident	Herd	▼

# **Animal Feeding Information**

Describe feeding regime, including composition of diet(s) (If special feed is needed, has feed mill been contacted?)

Steers and heifers will be pen fed in nine pens with nine animal per pen. The cattle will be fed a corn silage based diet that is typical management of this unit. The experimental diets will be commercially mixed and delivered to station by an auger truck. The station will unload and store the three diets and store in designated feed

### Total amount of feed needed

12 tons, 4 tons per treatment

### Feed storage location (bin number if available)

Commodity bay

## **Responsibilities By Task**

(Where applicable, please provide detailed instructions to the REC staff in the boxes below.)

Task	Special Instructions	Resp Part	onsible y
		$\circ$	Project Leader
Preparation of Paddocks/Pastures			Center Staff
			Both
		$\bigcirc$	N/A
Forage/Feed Sample Collection	The center staff will collect hand-grab samples of the corn silage and each experimental diet during the morning feeding at D0, 28, 56, and 84. This will coincide with the cattle weigh days. These will be stored in a freezer and collected by the project leader.	•	Project Leader Center Staff Both N/A
Pasture/Paddock/Pen Rotations (both timing and the actual act)		$\bigcirc$	Project Leader
			Center Staff
			Both
			N/A

Record Keeping (dates of procedures)

that needed medical attention.

Staff Both N/A

12/05/2019

Day 28. Animals will be brought to the working facility by the center staff. The project leader will be there to assist in weighing.

Remove

# Office of Research

Francis Fluharty

Robert N. Stougaard

By submitting this form, the principal investigator verifies that all relevant University Guidelines are being met and project protocols were approved by the relevant committees as appropriate (radiological safety, biological hazards, animal use).

**Save Without Submitting** 

**Submit for Approval**