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| Please use this form to clearly and concisely report on project progress. The information included should reflect quantifiable results that can be used to evaluate and measure project success. Comments should be limited to the designated boxes. Technical reports, no longer than 4 pages, may be attached to this summary report. |
| Project Number:  | 1820-172-0122 |
| Project Title:  | Effects of the Introduction of Feed Grains into Mid-South Soybean Production Systems |
| Organization:  | Mississippi State University |
| Report Period: | January-March 2018 |
| Project Status: Ongoing |
| Soil samples from all study locations were sent to LSU soil testing lab in January. Soil samples for Stoneville location sent to LSU Soil Testing lab is already analyzed. However, soil samples from other locations are not yet analyzed. Soil analysis for nematode populations was completed for all locations in Stoneville pathology lab. Corn, and sorghum seed has been requested from Pioneer and is in the process of being delivered by end of this month. Dr. Ross is also handling seed orders for soybean and soybean seeds will also be delivered to all location by early April. **Mississippi****Brooksville:** Since the last quarterly report was sent, wheat plots have been fertilized with 200 pounds of product per acre of 33-0-0. A second nitrogen application will be applied to the wheat later in the spring once stem elongation begins to occur. Once drier conditions occur, we plan to make a burn down application in order to prepare for spring planting. **Stoneville:** Wheat was planted on 21 November 2017 for rotation 11, one of the double crop rotations. Wheat growth is slow. It was raining regularly from last few weeks and wet fields delayed N application. Nitrogen was applied to wheat on 9th March, 2018.**Missouri**Soil samples for nutrients and nematode testing were shipped to Mississippi State University from research plots at the University of Missouri-Fisher Delta Center. The 2018 Missouri plot planting plan were reviewed for soybean, corn, milo, and wheat and adjustments made to three treatment rotations to be in sequence with the rest of the states. The wheat that we planted in plots last the fall is growing. It has been a cold winter but daily temperatures are increasing. We will apply green-up nitrogen as soon as the soil dries enough to drive over the field.**Arkansas**Wheat treatments were planted in the fall, and N fertilizer and herbicide applications have been applied. Corn will be planted as soon as corn seed is delivered. Grain sorghum and soybean treatments will be planted in the next month. Just getting ready for another year. **Louisiana**On December 8, 2017 Powerflex HL was applied to wheat at 2 ounces of product per acre to control winter annual weeds. Wheat was fertilized February 16 and March 2, 2018 with 30-0-0-2 supplying 52 units of nitrogen and 3.5 units of sulfur for each application. This is a total of 104 units of nitrogen and 7 units of sulfur. Wheat is currently in the jointing stage of growth. On March 2, 2018, glyphosate and dicamba were applied to the study area to burndown winter vegetation. Once weather permits corn will be planted. **Texas**Wheat was planted on Nov 29. UAN-32 was applied @120#N/a to wheat on Jan 25th. Weedmaster @1 pt/a+ NIS @0.25% v/v to wheat on Jan 26th, 2018. On Jan 25th, fields were plowed using turbo (field cultivator) to prep for planting to all other plots.  |