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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. |
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| Project Title:  | **LADDER (Large Agricultural Database that Drives Extension and Research)** |
| Organization:  | **Mississippi Water Resources Research Institute (MWRRI); Mississippi State University** |
| Principal Investigator Name: | **Zach Reynolds** |
| Report Period: | 7/1/24-9/30/24 |
| Project Status - What key activities were undertaken and what were the key accomplishments during this quarter? Please use this field to clearly and concisely report on project progress. Limit 5,000 characters. |
| -Recently hired a research engineer to lead coding and development efforts. -Created an API application that links to grower data housed in MyJohnDeere.-Have begun to autonomously retrieve and convert data from participating grower accounts. -Begun to develop ways to link retrieved data to previous Python code which will standardize, and post calibrate data.-With hiring of new research engineer, we have made lots of strides in a short amount of time. This engineer will continue to work closely with me to improve the processes listed above. These processes will allow us to autonomously onboard large amounts of data much quicker than by hand which will lead to a very nimble program/tool that is useful for producers.  |
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