

# PRO- AG Attachment A Business Plan

## Executive Summary:

At the forefront of the Agricultural industry's evolution lies technology and precision application, areas to which Tyler Janky is deeply committed, particularly in the context of benefiting local producers in the Central City Area. Our vision entails utilizing cutting-edge methods like drone technology to apply our own fungicide and foliar fertilizers, thereby fostering ongoing research and development on our farm. With the backing of this grant, our aspiration is to expand our operations to cover. We want to serve people in Hall county. Our ultimate aim is not only to enhance our own practices but also to contribute insights into nutrition and chemical application methods that will benefit future generations of farmers.

## Project Proposal:

On our farm, we will utilize a single T40 spray drone, recognizing its transformative potential in enhancing agricultural research and application efficiency. These drones offer unparalleled precision and cost-saving benefits, enabling researchers to conduct targeted experiments with remarkable accuracy. By precisely delivering treatments to designated areas within expansive fields, researchers can meticulously assess the efficacy of various treatments, including fertilizers, pesticides, and herbicides. This precise application not only minimizes resource wastage but also reduces operational costs, contributing to environmental sustainability by mitigating chemical runoff and ecological impacts. Ultimately, spray drones serve as indispensable tools in advancing agricultural research, optimizing resource utilization, and fostering sustainable farming practices

Timeline:

1. Obtain FAA Tracking Number - Obtaining currently
2. : Schedule appointment with testing center - By End of May
3. : Pass "Unmanned Aircraft General-Small (UAG)" exam
4. Complete FAA Form 8710-13 for remote pilot certificate
5. File 137 exemption.

We will be getting help from Ference Agronomy LLC. To follow the correct protocol to get a proper license before flying.

**Sustainability:**

Our strategy entails regular maintenance schedules to extend the drones' lifespan, continuous staff training to stay abreast of the latest technologies and regulations, and ongoing partnerships with drone manufacturers and agritech experts for technical support and innovation. Moreover, we're dedicated to diversifying our revenue streams by providing drone services to neighboring farms and exploring collaborations with research institutions and government agencies. By adhering to these strategies and adapting to evolving market conditions, we are confident in the long-term success and sustainability of our spray drone project, ensuring its enduring positive impact on our agricultural practices.

**Budget**

Cost

1 T 40 DJI Drones with Batteries, Spreaders, and accessory for agriculture application -	31,000
Generators for batteries	1,050
Plumbing for application	450

**Total-** 32,500

Funding

Pro Ag Grant - 55 % of the Drone cost 17,875

Tyler Janky	14,625
Total-	32,500

### **Financial Projects**

We are wanting to cover our own acres and get at least 1,000 more acres to spray to make/ save an additional 25,000 on our operation year one. Within five years a total of 100,000 for our operation to grow!

Cost benefit analysis:

In the long term, the addition of this drone is projected to yield a gain of \$25,000. Furthermore, by leveraging the drone for the application of our foliar fertilizers, we anticipate a potential revenue of \$32,500 in the first year alone. With a potential annual growth rate of 10 percent, we foresee the opportunity to generate an additional \$50,000 for our operation annually. This influx of revenue presents opportunities for me to expand my ventures within farming, enhancing the potential for growth and success in our agricultural endeavors.