



# 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application (Docket C-5600)

Submit signed PDF applications with all attachments via email to [psc.broadband@nebraska.gov](mailto:psc.broadband@nebraska.gov) by **January 17, 2025, 5:00 p.m. Central Time**.

**IMPORTANT:** Applicants must carefully review the PRO-AG Program Guide and PRO-AG Scoring Reference Sheet for details on application requirements and scoring. This includes but is not limited to application field descriptions, attachment content, and other necessary documentation and requirements. These resources, along with examples of allowed and disallowed costs are available on our website at <https://psc.nebraska.gov/telecommunications/2024-2025-precision-agriculture-infrastructure-grant-program-c-5600>.

If additional space is needed for any section of the application, you may include extra pages if needed, noting the application Section, Subsection, and Field Number on the attachment.

NOTE: This application is a fillable PDF and should be submitted in its original format, rather than as a printed or scanned copy. If technical difficulties or other challenges prevent you from submitting the form in this format, please contact us to discuss alternative solutions.

## Subprogram Descriptions:

**Connectivity Subprogram:** Grants within the Connectivity Subprogram shall be used to provide adequate precision agriculture connectivity to on-farm structures and devices, including, but not limited to, tractors, combines, irrigation systems, livestock facilities, and farm offices. Adequate precision agriculture connectivity means at least 100 megabits per second download and 20 megabits per second download speeds (100/20 Mbps).

**Note:** Applications for the Connectivity Subprogram are permitted from Providers. Agricultural Cooperatives, Agronomists, and Agricultural Producers may apply only if partnered with a Provider.

**Devices and Technology Subprogram:** Grants within the Devices and Technology Subprogram shall be used to provide:  
(1) On-farm traceability solutions that satisfy food supply stakeholder demand, including blockchain. (2) Products that improve soil health, water management tools and sensors that facilitate judicious use of water resources, and products that promote the use of water efficiency seed technologies that lower agriculture's water, carbon, and nitrate footprint. (3) Products that use autonomous solutions in agricultural machinery, including but not limited to, grain carts, spreaders, precision drone scouting, and scouting robots.

NOTE: Each subprogram is designed to fulfill a specific purpose, and applicants can submit multiple project proposals in separate submissions. However, applicants must apply separately for each subprogram. It is important to note that each application will be assessed individually, and there will be no priority given to applicants who choose to apply for grants in both subprograms. Each application will be considered on its own merits within the subprogram in which it was filed.

## Eligible Applicant Types:

- **Provider:** A wireless network provider that provides adequate precision agriculture connectivity. Proof needed: Proof of business registration and service authorization in Nebraska.
- **Agricultural Cooperatives:** A business entity that is cooperatively owned and controlled by agricultural producers, in which members' resources are pooled, and which operates for its members' benefit rather than the benefit of outside investors. Proof needed: Articles of incorporation, membership information, and proof of registration as a cooperative in Nebraska.
- **Agronomist:** A scientist who specialized in the science of farming, including but not limited to crop production, soil control, or soil management. Proof needed: Professional certifications, degrees in relevant fields, and portfolio of agriculture-related projects.
- **Agricultural Producer:** An individual or entity directly engaged in the production of agricultural products, including the cultivating, growing, and harvesting of plants and crops, including farming; breeding, raising, feeding, or housing of livestock, including ranching; forestry products; hydroponics; nursery stock; or aquaculture, and whereby 50 percent or greater of their gross income is derived from these products. Proof needed: See "Agricultural Producer Affidavit" on our website.

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

Section I: Applicant Details <i>(Applies to all applicants)</i>	
1. Subprogram Type: <i>(See Descriptions Above)</i>	Devices and Technology Subprogram <span style="float: right;">▼</span>
2. Applicant name (Legal name of the farm/business applying for the grant):	Kozeal Farms
3. Applicant type: <i>(See Definitions Above)</i> Proof of applicant type should be included with application as Attachment B.	Agricultural Producer <span style="float: right;">▼</span>
4. Applicant street address:	45475 RD 816
4a. Applicant city:	Sargent
4b. Applicant state:	Nebraska
4c. Applicant zip code:	68874
5. Applicant contact (first and last name):	Tyke Kozeal
6. Applicant e-mail:	Kozeal24@gmail.com
7. Applicant phone number:	308-215-8122
<p>8. Executive Summary: Provide an overview of the applicant, detailing the history, mission, and goals of the farm or business. Include specific objectives related to precision agriculture connectivity or technology adoption.</p> <p>At Kozeal Farms, we believe that with the continued advancement in spray drone technology that this is the way of the future. We want to be able to bring this technology and vital tool to our farm and operation to increase the productivity and efficiency of our operation. We currently have 132 acres of irrigated crop land and over 550 acres of pasture ground that we would be treating and testing with this drone. In addition to using a drone to increase the productivity to our own farm, we are also planning on spraying other cropland and pastures for customers in the Sargent area. Our goal is to spray 300 acres of pasture ground and 2000 acres of crop land in the 2025 season. We know how important it is to run a highly efficient operation and want to use drone technology to increase the productivity of other producers farms as well as our own.</p>	

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

### Section II: Project Details *(Applies to all applicants)*

1. Project name:	Drone Application
2. Precision agriculture production type:	Animal and Crop Production
<p>3. Project location description: (This should include a detailed description of the project area and location(s) to be served.)                  Central Nebraska and 50 Mile Radius of Sargent, NE</p>	
<p>4. Project Proposal: (a) Description of the precision agriculture project you plan to implement. -AND- (b) Explanation of how the on-farm connectivity or devices and technology will be utilized to enhance productivity, efficiency, and sustainability. <i>Please include information showing that the applicant is prepared to move forward immediately upon award of grant.</i></p> <p>Kozeal Farms is looking at add a EAVision J100 Drone to our farming operation. This drone will be used for many years applying product to both farm and pasture ground to improve the productivity of our farm. We will also be using the drone to cover an additional 2000 acres of crop land and 300 acres of pasture for other farmers in the Sargent area. This drone will give us the ability to apply product to the crop at the optimal time and tempture to ensure that we can get the most effective results from the product we apply. This drone will also give us the opportunity to help other farmers ensure that products like fungicide get applied when they need it and they will not be waiting on a long list of another aieral spraying competitor. The application of fungicide is very time and condition dependent and we know that with the use of this technolgy that we can get product applied when it is needed most. If this grant is approved it will also give us the opportunity to employ a young adult interested in agriculture, a part-time worker to help us with our drone spraying operation.</p>	
5. Total Project Cost <i>(include allowable costs only):</i> See project budget instructions and examples on our website.	\$ 35,092.00

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

6. Total Match Commitment Amount (in dollars), <i>if applicable</i> : NOTE: The project budget (attachment A) must detail any matching funds committed by source. Additionally, documentation of match commitment must be submitted as Attachment E. See "Contribution Certification Form" on our website.	\$ 10,528.00
7. PRO-AG Grant Amount Requested:	\$ 24,564.00
8. Estimated number of locations served in project area:	10
9. Technology type(s) used in proposed project: EAV J100 Base Package 70L Granular Spreader (J100) Westinghouse 14,500 Tri-Fuel Generator	
10. Expected Start Date ( <i>Should not be prior to 4/15/25</i> ):	5/15/25
11. Expected completion date ( <i>Should not be after 4/15/26</i> ):	2/1/26
12. Timeline: Please outline the timeline for your project deployment, including clear milestones and indicators of readiness for immediate action upon grant award. Provide an explanation of any measures you have in place to address potential challenges during the implementation process. The timeline below is pending the approval and receiving of this grant. Day 1 of the timeline would be the first day following the approval of this grant for Kozeal Farms. Completion of all legal permits and flight certificates will be complete before the approval date on 4/15/25.	
Day 1- Supply the financial funding to complete the purchase price of the drone and other items after the approval of the grant	
Day 2- Order the EVA Vision J100, 70L Granular Spreader from AgriSpray Drones. I will also purchase a Westinghouse 14,500 Tri-Fuel Generator from Tractor Supply	
Day 10- Receive the drones and register them with the Nebraska Department of Agriculture and the FAA. We will also begin to prepare our drone and generator for immediate operation as well as order extra parts that will be needed during the spraying season such as spray nozzles, propellers and extra parts. Having these extra items on hand will make repairs quick and easy as well as limiting any down time due to equipment breakdown. If this grant is approved and we will have everything in place to be operational and covering pasture ground within 30-45 days of receiving this grant. We are planning of covering at least 300 acres of pasture ground in the early part of summer and then will be moving our operation to row crop where we plan on covering another 2000 acres of cropland.	

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

13. Sustainability: Provide an explanation of how the project will be sustainable for a minimum of five years; include strategies and considerations for long-term success. Attach any evidence of sustainability to the application as Attachment F.

The Kozeal Farm in Sargent NE, has been in operation under the Kozeal name since 2001. We plan on continuing this operation and improving our efficiency with the application of a drone. We are also going to aid producers in the area with their aerial application needs by providing this service for them to help them unlock their most potential of their farm. We will be providing part-time employment for at least one individual at a time over the next 5 years. All legal paper work and certifications will be kept up to date by Tyke Kozeal. Any employee who pilots a drone will have been extensively trained and will have passed the 107 flight exam. Kozeal Farms will be solely responsible for the upkeep and maintenance of the drone throughout the spraying season. The drone will go through a strict evaluation every 1000 acres sprayed to make sure that no parts need replacing for it to function safely and efficiently. If a part is needing replacement Kozeal Farms will replace the part and test the drone to make sure it is running properly before operations continue. If a drone would accidentally land hard or crash we would return the drone to be fully operational and continue servicing farmers in our local area.

**2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application**

**Section II Project Details – Subsection A: Applies to Connectivity subprogram ONLY**

1. Farm Site Size (acres):	
2. Number of Key Operational Locations:	
3. Number of Connected On-Farm Entities:	
4. Current maximum connection speed bandwidth in project area in Mbps: <i>(Must be &lt; 25/3 Mbps)</i>	
5. Speeds upon completion: <i>(Must be ≥ 100/20 Mbps)</i>	
6. Do you certify that the farm site(s) to be served are currently unserved or lacking broadband Internet service at speeds of at least 25/3 Mbps download/upload?	
7. Do you certify that upon completion of the project, the farm site(s) served by the project will have access to minimum speeds of 100/20 Mbps for precision agriculture connectivity to on-farm structures and devices, as required by Neb. Rev. Stat. § 86-1404(2)(a)? NOTE: If the FCC National Broadband Map indicates that the location is already receiving speeds of 25/3Mbps or higher, applicants are required to submit evidence refuting the data on the broadband map. (Include as Attachment F)	

**Section III: Technical Summary (Applicants must complete the relevant subsection)**

**Section III: Technical Summary – Subsection A: Applies to Devices and Technology subprogram ONLY**

1. Applicant's Experience: Overview of the applicant's experience and expertise in precision agriculture devices and technology solutions, specifically as related to the devices/technology included in the application. In cases where the applicant lacks direct experience, an explanation is required on how they plan to acquire the necessary skills and knowledge to operate the equipment effectively. Provide details of past successful projects or initiatives related to precision agriculture or similar technologies.

We have not used spray drones within our operation to this point but we have used a Mavic Mini 2 Drone to evaluate crop conditions and needs of our crops. We have also used this drone to check on our cattle herd and grazing conditions as it gives you a perspective that you cannot see from the ground. We are planning on gaining and have already gained knowledge about drone spraying application from books, internet sources as well as a local agronomist and drone spraying applicator in the central Nebraska area. This person has been very helpful during these processes and shared the benefits of this technology with us. Hearing the testimony of his customers as well as his own has played a pivotal role in us pursuing the opportunities of this technology.

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

2. Program Details: Provide details about the proposed program involving precision agriculture devices and technology, including specifications and technical requirements. Include an explanation of how the chosen technologies align with the goals of the project.

Kozeal Farms will use this grant to purchase an EAV J100 spray drone to service a minimum of 2000 acres of crop land and 300 acres of pasture ground each year for the next 5-10 years. We will be offering these services to our local area farmers to help them run an efficient, productive and healthy farm. We will also be able to offer part-time employment to a younger individual who is interested in agriculture help grow this industry among the younger generation.

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

3. Expected Useful Life: The expected useful life of devices/technology included in the request for funding. Please identify any components which may require more frequent repair or replacement. The life expectancy of this drone can be upwards of 10 years/15000 acres sprayed. We will ensure that we do our part to make this attainable. We will conduct a pre-flight check every field to make sure that every part of the drone is fully functioning before flight. We will also spray down our drone after each day of application to make sure that there is no chemical wear on any part of the drone to extend the life of the drone. We will perform more thorough and extensive bi-weekly checks or every 1000 acres sprayed whichever comes first and replace any propellers at this time if they are showing any signs of wear. The batteries for the remote will be kept in working order and will be fully charged each day to ensure safe operation.



## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

4. Maintenance Plan: Applicants should explain how the devices/technology funded with PRO-AG grant funds will be maintained for at least five years following project completion.

We will perform daily pre-flight checks and tighten all screws before flight in each field. We will have a 3-1 drone battery ration and will switch batteries every refill to ensure safe and effective operation of the drone each flight. The 4 arms of the drone will be inspected during our check to ensure safe operation of the drone and all of the hose lines will be checked for cracks, kinks or breakage. If any issues arise during these checks they will be fixed promptly to make sure the drone in perfect operation condition. Expencises for these fixes will be in the budget with an alloted amount of \$2500 each year. With this maintenance plan we can ensure that there is a high likelihood that the J100 Drone will be operational for 5 or more year so we can continue on our path to help farmers in the Central Nebraska region for many year to come.

**2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application**

**Section III: Technical Summary – Subsection B: Applies to Connectivity subprogram ONLY**

1. Applicant's Experience: Describe the applicant's experience providing precision agriculture on-farm connectivity solutions including their technical capability to meet the requirement to provide a minimum 100/20 Mbps. Include details of past successful projects or initiatives related to precision agriculture connectivity or similar technologies. Specifically, whether they currently provide broadband at the minimum 100Mbps/20Mbps speeds, and if so, where.

**2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application**

2. Innovation and Technology: Provide a detailed description of the proposed network architecture including the specific technologies and strategies to provide service, a list of the on-farm structures and devices to be connected by project, placement of access points, data collection devices, and other key elements.

3. Scalability Evaluation: Explain how the solution ensures reliable and scalable connectivity. This could include a plan for network expansion along with a description of strategies for preserving performance with increased device density.

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

4. Maintenance Plan: Include details regarding the expected useful life of the facilities to be built. Include a statement as to the technological components used, and, if applicable, which components may require more frequent repair or replacement. Applicants should explain how the project will be maintained throughout the useful life of the facilities along with the applicant's plans to meet the minimum speed requirements in place for the PRO-AG grant for a minimum of five years following completion.

5. Latency: Include the expected latency of the network (in ms) upon completion. Explain how the expected latency aligns with the needs of your application. How does this latency impact the ability to perform real-time operations or data transfers in the context of precision agriculture?

**Section IV: Legal (Applicants must complete the relevant subsection)**

**Section IV: Legal – Subsection A: Applies to Devices and Technology subprogram ONLY**

1. Provide a detailed outline of the pertinent qualifications and certifications essential for the proposed devices/technology. Explain whether the applicant currently holds the necessary qualifications and certifications, including any expiration dates. If not currently secured, define the planned steps and timelines for acquiring any essential qualifications and certifications.

Currently Kozeal Farms does not hold all of the certifications needed for operation but the following list below is being worked on and will be completed before operation in May.

1. Registering Drone With FAA
2. FAA 107 Licenses-Drone Pilots License
3. FAA 137 Exemption for Overweight Drone
4. Working on Commercial Applicator License with Aerial Endorsement
5. Working on Aerial Commercial Business License Through Nebraska Department of Agriculture

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

2. Detail the applicant's strategies and commitments for sustaining the qualifications and certifications over the five-year post-deployment period.

Tyke Kozeal and Kozeal Farms is committed to receiving and upholding the qualifications and certifications to run a drone operation over the next 5+ years. These certifications will be completed each year as needed and any individual who is expected to operate a drone under Kozeal Farms will have the correct certifications and training needed before they are allowed to operate the drone.

**2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application**

**Section IV: Legal – Subsection B: Applies to Connectivity subprogram ONLY**

1. Applicant's Nebraska ETC Status:

2. Legal Representative Name (Must be licensed and in good standing to practice law in Nebraska or admitted pro hac vice)

3. Legal Representative Email:

4. Legal Representative Phone:

5. A description of any risk factors or legal challenges that must be addressed prior to or during the project in question (examples include local zoning, permitting, access to rights-of-way, etc.), as well as a plan for mitigation. Additionally, explain any engagement measures with proposed project location(s) or impacted communities.



**2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application**

6. Has the applicant received letter(s) of support or approval from the owner of each farm site included in the grant application? Yes/No.  
NOTE: Letters of support must be attached to the application as attachment G and should clearly express the owner's consent for the connectivity project and their understanding of the proposed on-farm connectivity services and rates charged for service.

--

**Section V: Project Impact (Applies to all applicants)**

1. Demonstrated Substantial Economic Benefit: Describe the significant economic impact your project will have on rural Nebraska. What tangible benefits can you quantify, such as job creation and income generation? Please provide illustrative examples.

Kozeal Farms is located in Sargent, Nebraska which is a very rural tight knit community comprising of around 500 people. Our mission is to serve the farmers in this area to help them improve the efficiency and productivity of their operations. We want to help them improve their yield using drone technology by being able to apply product directly when and where it is needed most. This will help them save money on product as well as gain a higher percentage yield which is beneficial to any business operation. We will also be able to offer part-time employment to a individual in the Sargent area which will help them financially and also grown their understanding of agriculture and business. Personally we will be able to create income for our personal business by increasing our own farms efficiency as well contracting out an additional 2000 acres of crop land and 300 acres of pasture ground that will be treated and spray with this aieral application technology.

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

2. Continuing or Increasing Economic and Technological Impacts: How will your project provide ongoing economic and technological benefits over time? Outline the strategies you will implement to ensure sustained growth and progress beyond the initial implementation phase.

In year one we will be using the J100 drone to apply treatment to over 2300 acres of pasture and cropland combined. In the years to follow we would like to expand upon our fleet and add an extra drone by using some of the profits from year one. We would use these profits to reinvest in our company so we can cover more acres and to service more farmers in our region. This would allow them to continue to run successful farming operations. By expanding our fleet this would open up the opportunity to employ another part-time employee living in the Sargent area. We are committed to helping the Central Nebraska region of producers by offering a very effective option of aerial application at a competitive and reasonable price.

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

3. Water Conservation Focus: If applicable, please explain in what ways does your project prioritize water conservation? Explain the innovative strategies, technologies, or practices you plan to implement to promote sustainable water management and mitigate water usage.

Water conservation is a very important topic when it comes to Nebraska Agriculture. We sit on one of the greatest fresh water sources in the world the Ogallala Aquifer. We know that we need to keep this fresh water source clean and free from herbicide and pesticide run off. That is why we believe that the use of drones to apply these product is such an advantage. We will be able to spot treat pastures and crop fields rather than applying a mass broadcasting of chemicals. This will ensure that the farmers can reduces cost, improve field conditions while keeping our greatest fresh water asset clean for future generations.

**2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application**

**Section VI: Financial Projections (Applies to all applicants)**

1. Provide comprehensive financial projections for the project. This should include both short-term (1-3 years) and long-term (4+ years) forecasts, detailing anticipated costs, revenues, and key financial health indicators such as net cash flow and profitability ratios. The projections should demonstrate a realistic estimate of income and expenses and the overall financial impact of the project.

**Budget Cost**

1-EAV J100 Spray Drone With Batteries, Controller and Parts	\$31,993
1-EAV 70L Granular Spreader Box	\$1,599
1-Westinghouse 14,500 Generator For Batteries	\$1,500
<b>Total Cost -</b>	<b>\$35,092</b>

**Funding**

Pro Ag Grant	\$24,564 (70%)
Kozeal Farms	\$10,528 (30%)

If Grant is approved Kozeal Farms has the financial funds to match the purposed 35% to complete the purchase of all equipment needed to be operational.

**Financial Projections For Project**

This income projection is for Year 1 with minimal acres covered with J100 Drone

<b>Income</b>	
Grant	\$24,564
Cropland acres covered by drone (2000x\$12 Per Acre)	\$24,000
Pasture acres covered by drone (300 acres = 15 application hours x \$300 Per Application Hour)	\$4,500
<b>Total Income</b>	<b>\$53,064</b>

**Projection 1- Drone is paid for in 1 year**

<b>Expenses (If drone is paid of Year 1)</b>	
1-EAV J100 Spray Drone With Batteries, Controller and Parts	\$31,993
1-EAV 70L Granular Spreader Box	\$1,599
1-Westinghouse 14,500 Generator For Batteries	\$1,500
Consumables	\$750
Labor	\$5000
Training	\$500
Fuel	\$950
Insurance	\$2200
Potential Interest	\$910
<b>Total Expenses</b>	<b>\$45,402</b>

Gross Profits (Year 1 With Drone Being Payed Off In Year 1) (\$7,662)

**Projection 2**

Drone is paid over 3 year term (Drone Yearly Payment \$4,108)

Income	\$53,064
Expenses	\$37,186

Gross Profit (Year 1 With Drone Being Payed Off In 3 Years) (\$15,878)

**Gross Profit Year 2 & 3 With Grant Not Included in Income Revenue)**

Income	\$28,000
Expenses	\$14,418
<b>Gross</b>	<b>( \$13,582)</b>

**Projection 3**

Gross Profit Year 4 Income and expenses with loan paid off minium acres covered

Income	\$28,000
Expenses	\$10,310
<b>Gross</b>	<b>(\$17,690)</b>

**Projection 4**

Gross Profit 5 year plan with 15% increase in acres covered each year. I will also adjust expenses accordingly with the addition of

**Section VII: Cost Benefit Analysis (Applies to *all* applicants)**

1. Provide a detailed cost-benefit analysis for the project. This analysis should quantify the expected return on investment (ROI), outlining the financial impact of the project in both the short-term (1-3 years) and long-term (4+ years). The analysis should clearly demonstrate the financial returns of the investment.

The goal with this project proposal would be to become slightly profitable after the first year with the use of the grant money to purchase our first drone. Our first year profitability would be around \$15,800 if we would take the path of a 3 year payment plan for the drone. Years 2-5 combined profit would be \$62,544. That is if we don't grow our acres and only sprayed the minimum of 2000 acres crop land and 300 acres of pasture ground. The potential and intent is there to increase our arces covered by 15% each year. If we plug this formula in to the equation we would have profit of \$115,538 after 5 years of business. This model would give us the greatest opportunity to not only expand our fleet but to also expand our work force and to hire more individuals within our area. This model would also allow us reach more farms and help them with their crop production need.

**Section VIII: Monitoring and Evaluation (Applies to all applicants)**

1. Clearly list the major milestones that will be used to track the progress of your project. This should include a timeline for deployment of connectivity OR devices and technology. Each milestone should include an expected completion date. Examples: (1) Installation of connectivity infrastructure by [insert date]. (2) Deployment of smart sensors by [insert date]. (3) Full project implementation by [insert date].

Kozeal Farms Monitoring Prodical

Year 1

Cover 2000 acres of cropland and 300 arces of pastor ground

KPI

1. Have FAA 107 course bought and test scheduled to be completed by March 1st
- 2 .FAA 137 Exemption for Overweight Drones Certifacate by March 15th
3. Have 150 acres of pasture ground contracted out before May 1
2. Start scheduling cropland acres for June & July during the month of May
3. Have a goal of 1000 acres scheduled for June & July by end of May
4. Have 1 employee hire to ensure the application process runs effeciently and productivly
5. Have atleast 375 acres booked before each week during the spraying season
6. Send invoices to customers within 2 weeks of completion of projects

Year 2 & 3

- 1.Cover an additional 50 acres of pastor ground each year during spring/early summer
2. Have 1500 acres scheduled for June and July by end of May
3. Retain or find new employee for the upcoming season
- 4.Have 450 acres booked before each week during the spraying season
5. Advertise within the local area if needed to grow business and reach for customers

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

2. Identify the specific Key Performance Indicators (KPIs) that will be used to measure the success of the project following implementation. Each KPI should be measurable and aligned with the project's objectives. Examples: (1) [X]% increase in crop yield by [insert date]. (2) [X]% reduction in water usage within [insert time frame]. (3) [X] number of devices connected to the system by [insert date]. (4) [X]% improvement in farm operational efficiency by [insert date].

KPI used in measuring success after implementation

1. We will start with scouting and spraying our own pasture ground more musk thistle during the first few weeks of May.
2. We will then rescout the area after to assure the efficiency of the chemical and process applied to ensure effective application of product.
3. We will reduce the amount of product needed in pasture spraying by spot specific spraying rather than broadcast spraying to save the producer money. The results of this will be immediate because the rancher will not have to pay as much in product.
4. After we have sprayed crop land we will circle back to the field and evaluate the application success that was achieved. We will also talk to the farmer and agronomist to confirm the efficiency of the application. This will be done within two weeks of each project.
5. Improve yield of corn by 5-10 bushels per acre by being able to spray fungicide during the ideal time, do to the mobility and efficiency of drones. We will be able to monitor these results after harvest by getting an analysis of the yield monitor of the farmer and comparing it to previous harvest.

## 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

3. Please explain the plan for monitoring and evaluating the success of the precision agriculture project. Include a detailed explanation of how Key Performance Indicators (KPIs) included in Section VII, field 2 above will be tracked and monitored throughout the project. Include specific metrics, tools, and timelines that will be used to track progress and measure outcomes.

All progress of performance indicators will be tracked on a excel file with each project having its own tab. This will allow use to monitor and evaluate the effectiveness of our application. After evaluating these KPI's we will be able to make adjustment to better improve our procedures and the effectiveness of our application process. We will be able to use metrics such as total kill ration when it comes to noxious weeds when pasture spraying or yield results from the farms after the harvest season. We can also rely on local agronomist to help us verify that our application are effective and working as planned.



# 2024-2025 Precision Agriculture Infrastructure Grant (PRO-AG) Grant Application

**Attach/Include (see Program Guide for details):**

**ALL Applicants Must Include:**

- Attachment A. Project Budget/Documentation
- Attachment B. Eligible Entity Documentation
- Attachment C. Cybersecurity
- Attachment D. DJI Attestation
- Attachment E. Match Documentation
- Attachment F. Other Supporting documentation (if applicable)

**Connectivity Subprogram Applicants Must Also Include:**

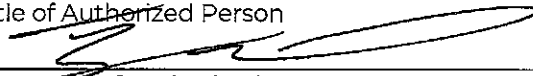
- Attachment G. Legal
- Attachment H. Technical
- Attachment I. Financial Statements
- Attachment J. Rate Comparability
- Attachment K. Shapefiles
- Attachment L. Project Diagram
- Attachment M. List of Key Operational Locations

**APPLICANT CERTIFICATION:**

I, the undersigned Kozeal Farms representing Tyke Kozeal, hereby certify the eligibility of our entity/project for the Precision Agriculture Grant (PRO-AG). By signing this statement, I confirm the legal name, contact details, size, and location of the farm site(s), along with our eligibility type as a Agricultural Producer. Attached are supporting documents

[Legal Name] [Farm/Business Name]  
[Provider/Agricultural Cooperative/Agronomist/Agricultural Producer]  
validating our eligibility, and I declare adherence to all requirements outlined in Precision Agriculture Connectivity Infrastructure Grant Act (Neb. Rev. Stat. § 86-1401 et seq.) & Commission Order C-5600. I certify that all information we have submitted on this application and its supporting documents is true and correct. I certify that we are not currently using, nor will we use, prohibited communications equipment and services developed by organizations on the Federal Communications Commission's Covered List pursuant to 47 U.S.C. § 1601. I understand that the submission of any false information or failure to comply with Commission requirements may result in penalties towards me and/or my organization.

Your signature confirms the accuracy and authenticity of the provided information. It will be considered binding for all purposes related to this application and any subsequent agreements or certifications.

<u>Tyke Kozeal</u>	<u>1/16/25</u>
Printed Name of Authorized Person	Date
<u>Project Manager</u>	
Title of Authorized Person	
	
Signature of Authorized Person	

Click to Attach this Form to an Email

