

Attachment C. Technical Summary:

As stated in previous documents, my wife and I have a background with precision agriculture. My wife was the Digital Sales Advisor for Simplot out of college managing different programs within precision agriculture. She was in charge of GPS soil and tissue sampling, created field management zones based on yield data, SSURGO maps, soil sample results, imagery, and elevation, which than could be turned into prescriptions, managed soil moisture monitors, and managed an internship program for college students. After her time at Simplot, she worked for a Reinke Irrigation dealer focused on selling soil moisture probes and creating variable rate irrigation as well as learning the mechanics of a pivot. She is about to graduate with her masters in Conservation Agriculture, where she took sustainability classes that focused on global issues and local issues.

I, myself managed my precision program for the farm for the years leading up to her. I created prescriptions, ran different field trials for companies like Simplot, Renk Seed, Pioneer, and performed trials for the University of Nebraska-Lincoln on farm research where I have been published in their magazine multiple times for research. I am always looking at ways to make my farm more efficient which in turn, will hopefully minimize mistakes and maximize profits and sustainability.

With our soil moisture probes we have had lots of success but we have had to switch to different cellular carriers depending on our location. Most monitors are wanting to run off of Vireo or Verizon to which we do not have much success in our more remote fields. We try to stick with AT&T and run antennas as tall as we can which is usually around 8 foot in the air.

Below are the tractors and combines that will utilize our new monitors for a more precise application and ease of incorporating more precision agriculture into our farm. As tractors come and go, monitors will be switched to record data for future tractors to come.

John Deere R4038 sprayer with 7000 globe and GS5+ Monitor section control activation for herbicide and fertilizer application and modem

John Deere 8370R tractor with 7000 globe and GS5+ monitor, section control activation for seed and fertilizer application and modem

John Deere 8130 tractor with 7000 globe and GS5+ monitor, section control activation for seed and fertilizer application, and modem

John Deere 9460R tractor with 7000 globe, GS5 monitor, and modem

John Deere 9320 Tractor or Gleaner S78 Combine with 7000 globe, GS5 monitor, and modem

John Deere 4955 Tractor or Claas 740 combine with 7000 globe, GS5 monitor, and modem

Shop office and cell phones will be used to monitor all machines through the use of the modems communicating to the My John Deere platform so all data can be recorded and utilized to help make the most efficient and accurate decisions going forward for at least the next five years or longer.

We are a family that takes pride in what we have. After harvest our equipment is serviced, by us, and then stored in a shop where we perform any maintenance needed, download data, and prepare for our next planting season. We are currently working on a room within the shop for our precision equipment which is currently storing our soil moisture monitors. We know that there is longevity on certain products but we are aware if we store them right and take care of them we can maximize their life which in the long run will save us money and a headache. The shop we have is temperature regulated and was built in the last four years. We try to keep our repairs in house so if a monitor does go down and we are unable to fix it, we have support from our John Deere Rep just thirty miles down the road.

We are hoping these monitors last us over ten years and we can continue to update with new software's to our system until our generation five monitors are no longer serviced and need to be upgraded again to account for even newer, future technology. We have our Precision Ag Specialist, Hank, who we will have for backup if we need any help servicing the monitors. My wife will be full time maintaining and tracking data and updates. We keep all of our monitors in a temperature controlled shop usually in the cabs of our tractors.