Using Drones in North Dakota Agriculture

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Agronomy Manager

The Arthur Companies

Founded in 1906
• Family Owned - Independent
• 6 Full-service retail locations
• 3 shuttle loaders
• 45 Million bu of storage
Scouting is a bunch of things...
• Immediate fixes – IPM approach
• Mid term – genetics & fertility
• Long term – SCN & crop rotation
• Yield estimates for marketing decisions
FieldAgent® helps you gather in-season, whole-farm insights to maximize yields and profitability.

• Collaboration with Sentera since 2018
Wheat standability
Birds eye view
whenever it’s needed
Winter Wheat: NDVI in early spring VR fertilizer Rx
VR PRE: Sulfentrazone phytotoxicity
2021 Bare ground Trial

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LIVING PROOF TRIAL RESULTS – 2019

- Multiple application times
- Drone NDVI
- Variety x treatment interactions
- Timely agronomic advice
- Scrubbed yield data
- Finds issues that yield monitors miss
Digital Weed Mapping-
Sentera Technology
Bayer
RTK payload builds Rx for sprayer
Thanks