

March 12, 2022



The 2022 spring planting season is quickly approaching! In this newsletter, check out some checklists, highlighted eFields studies, podcasts, and articles. We hope you enjoy!

– The Ohio State Digital Ag Team

Digital Agriculture at OSU

Pre-Planting Technology Checklist

1. Check that firmware on the GPS receiver and in-cab display are up-to-date.
2. Make sure GPS receiver offsets and planter offsets are correctly set in the display.
3. Back-up and archive past years planting data.
4. Make sure your differential subscription is paid for the season.
5. Look over wiring harnesses and connectors for damage and loose connections.

Additional Information about Planter and Technology Prep

eFields Highlights

FurrowForce Margin

This field was more uniform in soil type and not as many differences were seen with settings during planting.

For more information on this study, see pages 56-57 of the 2021 eFields report.



Planting Progress and Suitable Days

Overall, the 2021 spring planting season was favorable with most of the state completed within a timely window. Statewide planting was completed with the earliest finish date in recent years.

For more information on this study, see pages 24-25 of the 2021 eFields report.

2021 eFields Report



High Speed Planting

Stand counts show little difference between speeds. Planting faster allows more acres to be completed per hour without increasing the number or row units on a farm.

For more information on this study, see pages 58-61 of the 2021 eFields report.

2021 eFields Report

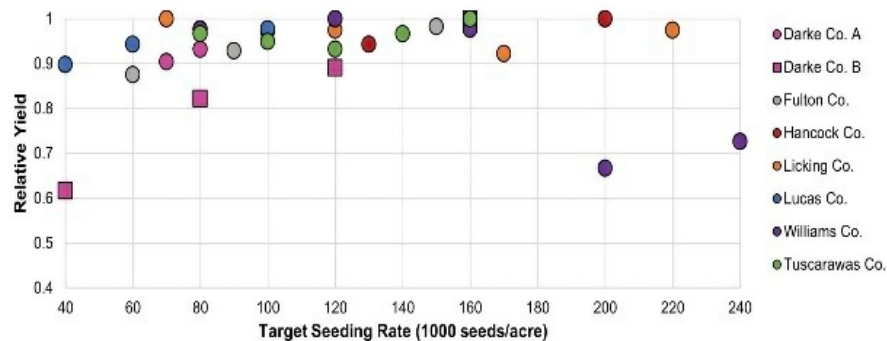


Seeding Rate Trials

The primary recommendations for seeding rates in Ohio are determined by target final stands and average soil productivity. There was a significant yield response to soybean seeding rate at 7 out of 8 sites in 2021.

For more information on this study, see page 236 of the 2021 eFields report.

2021 eFields Report



Post-Planting Evaluation

Scouting a field once the crop emerges is important to evaluate planter performance and crop establishment. Scouting provides valuable field-by-field insights on how planter performance affected yield potential at the end of the year and identifies needed changes for next year. Here are 3 measurements to evaluate planter performance and quality of emergence:

1. **Stand Counts** – emerged number of plants meet expected population and pay attention to missing emerged plants
2. **Stand Uniformity** – look for differences in plant height and vegetative stages within rows and in adjacent areas; also note difference in plant spacing in corn.
3. **Seed Depth** – was depth consistent?
4. **Plant Roots** - Dig up a few root balls. Clean soil from roots and compare differences in root hairs, size of root mass, and root health.

Featured Articles and Podcasts



Prepping Your Planting Technology with John Fulton

There is a lot to think of when we are preparing for our spring passes across the field. We have already walked through getting our planters mechanically ready to go to the field, thanks to the walkthrough we had with Brett Buehler from AgLeader.

[Read more](http://www.precisionagreviews.com)
www.precisionagreviews.com



John Fulton, Bill Lehmkuhl | Planter Tech Update □ -...

John Fulton, Ohio State & Bill Lehmkuhl, Precision AgriServices, Inc.

[Read more](http://ocj.com)
ocj.com



Deere's Autonomous Tractor & Mainstreaming...

In this episode of the Precision Farming Dealer podcast, Ohio State University's Scott Shearer shares what surprised him about the announcement of John Deere's autonomous tractor, his predictions for the future of autonomous farm equipment and...

[Read more](http://www.precisionfarmingdealer.com)
www.precisionfarmingdealer.com

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