



The Digital Ag Download

An eNewsletter with research updates, digital ag news, and tech insights for your farm.

2019 Pre-Plant Update

Many of you are gearing up for the 2019 planting season! In this newsletter, check out some planter pre-season notes, information on how to get involved with eFields, a quick recap of the eFields Regional Meetings, and some highlighted eFields studies. Be sure to share this newsletter with anyone who may be interested; we hope you enjoy! – The Ohio State Digital Ag Team

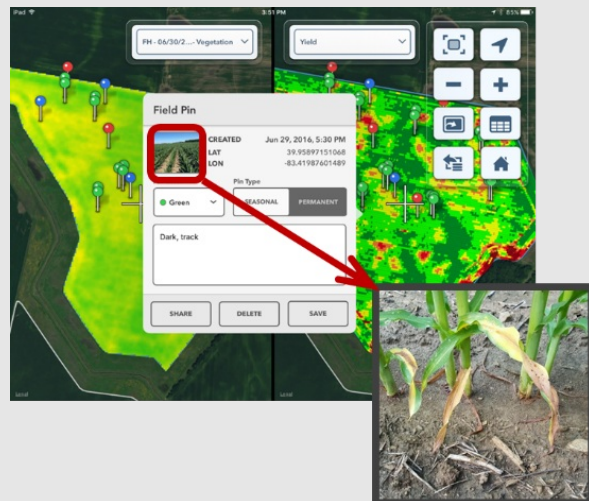
Digital Agriculture at OSU

Planter Pre-Season Notes

Planting season is quickly approaching, and many of you are preparing your planters for optimal performance. With today's seed costs and tight margins, getting seed placed right is critical and can have a major impact on your yields.

Visit the 2019 Planter Pre-Season Notes article below for information and tips about preparing for plant 2019. This article includes the following:

- Planter Goals
- Planter Checklist
- Technology Checklist
- Post-Emergence Scouting
- Helpful APPs



Pre-Season Notes

eFields

connecting science to fields

**Interested in improving
decision-making on your farm?**

*Partner with Ohio State University
Extension to use science to
optimize your operation.*



For more information:

Contact Dr. Elizabeth Hawkins at
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Highlights from the 2018 eFields Report:



Planter 2x2 vs. 2x2x2

This study was intended to evaluate the yield impacts of nitrogen placement on both sides of the furrow.

Farmers in Ohio have been looking for better ways to apply nutrients in a manner that increases the efficiency of crop uptake. In this study, traditional 2x2 planter based applications and 2x2x2 applications using 32% UAN and side-by-side observations collected to compare results.

Pinch Row

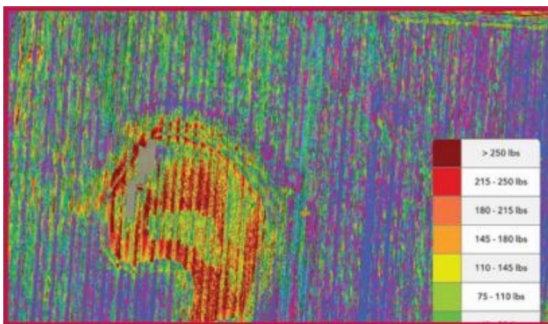
Tracked systems for planters have become popular options for attempting to reduce soil compaction in the rows adjacent to the paths of equipment travel.

The objective of the Pinch Row study was to evaluate if utilizing tracks on either the tractor or

planter would reduce soil compaction or yield in cropping rows influenced by field traffic.



Planter Wing Downforce



Wing downforce control systems have recently been encouraged for modern planters as a means to prevent planter wings from rising during the planting operation and reduce the weight of the center section of the planter.

This study was conducted to understand the potential agronomic benefits of planter wing downforce technology.

eFields

connecting science to fields

View the results of the above studies in the full 2018 eFields Report.

2018 eFields Report

eFields Regional Meeting Review

Throughout February 2019, Extension educators, farmers, and ag professionals gathered to learn more about the eFields on-farm research program at four regional meetings across Ohio. Each meeting featured local results shared by the Extension

researchers and partner farmers who conducted the research trials.

Agriculture in Ohio is very diverse and our farmers face some unique challenges depending on where in the state they are farming. The eFields meetings allowed us to look back at the results from on-farm trials conducted locally in 2018 and discuss what we learned. These meetings culminated in a discussion of local needs that on-farm research can help address in 2019 and beyond.



A highlight of each program was the opportunity to hear from a panel of partner farmers who conducted trials in 2018. These farmers shared first hand their motivations for conducting on-farm research, as well as the challenges and benefits of participating in the eFields program.



“2018 brought a lot of weather challenges that farmers had to face related to crop production. Having the opportunity to tie in the 2018 on-farm results to weather is really powerful. The 2018 eFields regional meetings offered the opportunity to put the on-farm research results into context with site-specific weather especially precipitation which is critical to the outcomes of both production and research. eFields has offered farmers the opportunity to learn what may work on their farm.”

Aaron Wilson
OSU Extension Climate Specialist

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