



## Harvest Update

While it feels as if planting was just finished, it is time to start looking forward to harvest. As fall approaches, we are looking forward to the many opportunities we will have to engage with farmers across the state. In this edition of the Digital Ag Download, you can find helpful articles and resources to help you prepare for the nearing harvest months. 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

## Farm Science Review

The Ohio State University's Farm Science Review, which was held online last year because of the pandemic, will return this year to be live and in person for the 59th annual event. The premier agricultural education and industry exposition is set for Sept. 21–23 at Ohio State's Molly Caren Agricultural Center.

Farm Science Review

## Did you miss us last year?

Check out our virtual field demos from last year!  
For more videos, go to the [Ohio State Precision Ag YouTube](#) page.

Ohio State Precision Ag YouTube



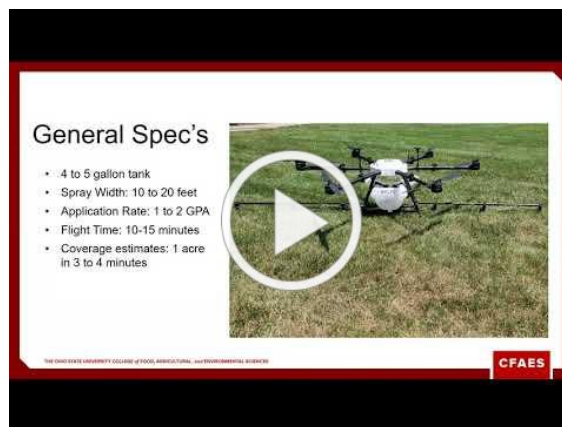
John Deere S770 Combine Header  
360 View



Aviation in Agriculture  
360 View



CaseIH 580 In Cab 360 View



Drone Spraying for Crop Production

## Combine Set Up Field Day

CFAES

OHIO STATE UNIVERSITY EXTENSION

**SEPTEMBER 16, 1-3:30PM**

# Combine Setup Field Day

- Combine Walk-over
- Yield Monitor Calibration
- Harvest Loss Demo

RSVP & Details:  
[go.osu.edu/CombineSetup](http://go.osu.edu/CombineSetup)

**THE OHIO STATE UNIVERSITY**  
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

[champaign.osu.edu](http://champaign.osu.edu)

Register

After the difficult harvest last year, and the prevalence of volunteer corn in soybean fields this year, there is a need to re-visit proper combine setup to minimize loss during good years or bad. Join us on September 16, 1-3:30 pm as experts discuss proper setup for corn and we look at this applied in the field. Dr. Elizabeth Hawkins will discuss yield monitor calibration through the season. Jason Hartschuh will walk over a combine and share set-up tips. We will also discuss care and cleaning which could save a lot of headaches this fall due to shortages in replacement parts and equipment. Lastly, a harvest demonstration will show yield loss with different setups and how to calculate it.

Location is the corner of Clark and Herr Roads north of Urbana. Bring a lawn chair if you do not want to stand for the duration. In the event of a cancellation due to weather, please register to provide your contact information: <http://go.osu.edu/CombineSetup>

## Featured Publications

---

### Tips for Calibrating Grain Yield Monitors

Calibrating grain yield monitors at harvest can be confusing and time consuming for a combine operator. However, improperly calibrated yield monitors can generate erroneous data that becomes useless or difficult to interpret.

**[Tips for Calibrating](#)**

---

### Improving Yield Map Quality by Reducing Errors through Yield Data File Post-Processing

Yield monitor data is certainly one of the most valuable pieces of information that is gathered throughout the year. It can allow producers to estimate profitability, evaluate management decisions, and develop recommendations for the upcoming year.

**[Improving Yield Map Quality](#)**

---

### Post-Harvest Guidelines for Yield Monitors

The end of harvest marks a good time to implement good management practices for yield monitors including taking steps to winterize components. Yield monitors continue to increase and in most cases are standard options on today's combines with the yield mapping data being important information for precision agriculture services offered across the agriculture industry.

**[Post-Harvest Guidelines for Yield Monitors](#)**

---

### Best Management Practices for Collecting Accurate Yield Data and Avoiding Errors During Harvest

Yield monitoring technology has been in use since the mid-1990s in the United States. These systems have not changed a great deal over time. Many users focus on the in-cab display as the "yield monitor."

**[BMPs for Collecting Accurate Yield Data](#)**

---

More harvest related publications can be found under "Harvest Technologies" on the [Digital Ag website](#).

## Featured Articles, Videos, and Podcasts



### Artificial Intelligence is Transforming Farming—Now

The age of artificial intelligence (AI) in agriculture is in motion. Automated planting and harvesting, unmanned vehicles for cultivation and soil sampling, robotic drone activity and more — AI technology has jumped from theory to design to farmland.

**Read more**  
[thedailyscoop.com](http://thedailyscoop.com)



### Early-order warnings are no joke

There's no shortcut here. "Order early" means something for crop year 2022, and I'm getting that message from a number of people. Recently, I hosted a FarmProgress365 virtual event with John Fulton, an Extension ag engineer at Ohio State University.

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



### Ag engineer digs in on key ag-tech topics

Quality time talking technology with an ag engineer can also cover a lot of topics. That's what we found out when we connected with John Fulton, extension ag engineer, Ohio State University. Fulton is involved with a lot of different engineering...

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



### Yield Monitor Calibration for Fall Harvest

Harvest has not yet started here in Ohio, but it is good to remember to make sure your yield monitor is setup and calibrated



### Post-harvest maintenance - don't forget the yield...

Yield monitors continue to increase and in most cases are standard options on today's combines with the yield mapping data being important information for

properly. Geo-referenced yield data (i.e. yield maps) are being used to provide precision agriculture insights and...

[Read more](#)  
[agfax.com](http://agfax.com)

precision agriculture services offered across the agriculture industry. The end of harvest...

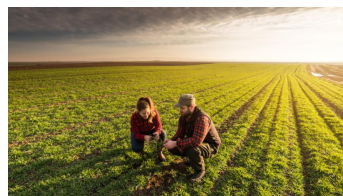
[Read more](#)  
[thecountypress.mihomepaper.com](http://thecountypress.mihomepaper.com)



### Harvest Tech Alert

By Emily UnglesbeeDTN Staff Reporter  
ROCKVILLE, Md. (DTN) -- Are you sure the data your yield monitor is recording are accurate? Ron LeMay, CEO of the farm data analytics company FarmLink, learned a hard lesson on this seven years ago.

[Read more](#)  
[greatamericancrop.com](http://greatamericancrop.com)



### 5 Questions on the Value of On-Farm Research

Farmers are continuously challenged to increase yields while maintaining profitability. To help them stay in the black and make sound purchasing and other operational decisions, more and more are conducting on-farm research to determine next...

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

# eFields

connecting science to fields

## Featured Studies

### 2020 eFields Report

#### Tracks vs. Tires

The use of tires versus tracks has been a long standing question and what piece of equipment to place tracks on first. The following operations have tracks versus tires: planter, planter tractor, sprayer, sidedress, grain cart, grain cart tractor, combine, and fall tillage. To see the results for the first year of this study, see page 116 in the 2020 eFields Report.



#### Yield Monitor Data for On-Farm Research

The purpose of this study was to determine the length needed for an accurate representation of



## Yield Monitor Data and On-Farm Research

Alysa Gauci shares the results from a trial looking at the effect of plot sizes on yield monitor data.

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

data when using yield as the response variable. It is critical to consider to what scale yield monitor data can be accurately used to support on-farm research. From preliminary results, it appears this length is around 400 feet. To see the full results of this study, see page 238 in the 2020 eFields Report.



## Like this Newsletter? Help us share it!

Help grow the popularity of "The Digital Ag Download" by sharing with growers, extension folks, and anyone interested in your neck of the woods! Just tell them to sign up and send them this link to go straight to our sign-up page:

[go.osu.edu/DigitalAgDownload](http://go.osu.edu/DigitalAgDownload)

## CONTACT US

[digitalag@osu.edu](mailto:digitalag@osu.edu)



Department of Food, Agricultural and Biological Engineering  
Agricultural Engineering Building  
590 Woody Hayes Drive, Columbus, OH 43210  
Phone: 614-292-6131  
Fax: 614-292-9448