The Ohio State University Crop Trial Research App

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Setup
The user is required to enter:
• name of trial
• number of treatments (2-10)
• number of replications (min. 3, max. 8)

Layout
The app will automatically generate a randomized and replicated plot from this information that can be saved and shared with others.

Additional Information
Other useful, but not required information when beginning a trial may include crop type, planting dates, hybrid, etc. While not required, it is highly recommended that the user enter some or all of this data. This information is stored within the app and used on the Summary Report to help describe the trial. This provides a better understanding of the details behind the specific experiment.

Plots
Users can design basic plot layouts which can be saved and/or shared. The Crop Trial Generator also includes a random number generator, which removes human error when developing plot layouts.

Trials
The Crop Trial Generator allows users to define an experiment, include response parameter data, and analyze that information to produce results that can be shared with anyone such as extension educators and crop advisors.

Once a trial has been created, the user can fully utilize the features of the app. Not only can a user take notes throughout the growing season, results relating to crop growing or harvest data can be added and analyzed. A summary report can be run at any time throughout the trial.

Data
Multiple forms of crop and growing data can be added by the user including yield results, stand counts, soil types, etc. Stored data is protected by a login function utilizing user names and passwords.

Scouting | Truck | Tractor | Sprayer | Combine

This app provides an all-in-one tool that can be used to enhance farm management decisions.

Users can create on-farm trials that compare hybrids, fertilizer rates, stand counts, and more.

• Available to producers, OSU extension educators, agronomists, consultants, and others
• Minimal screens and steps make this a very intuitive application
• Meaningful interpretation of individual trials

A Summary Report provides a final overview of all trials, notes, and results for easy comparisons.

Analysis
All response parameters (stand count, plant health, yield, etc.) are input by the user, the app will analyze results and generate a report that is easy to review and share with others.

Summary Report
This Summary Report will contain any information the user feels interested in specific trial trials and display it on one screen.

Notes
Additional notes can be added by the user after running the Summary Report to add them in explaining trial results and outcomes.

Analytics
Recorded response parameters (i.e., yield data, vegetative stage, moisture content) will be analyzed and shown in a Excel format on the Summary Report.

Sharing
This app allows data to be shared in a Summary Report format to individuals trusted by the user such as a crop consultant, agronomists, or other producers.

Producers can choose to share their summary reports with anyone.

Data added to the app cannot be seen by anyone else unless the user chooses to share it with another user name and password.

By choosing the sharing function, the summary report can be used to discuss management decisions based on the analysis of various forms of crop data. If a producer chooses not to use their trial information, the data can be stored in the cloud or exported as a CSV file to be used in programs like Excel or Access.

Key Settings and Functions
Reminder - allows the user to set reminders for checking/scouting information to abide in a better study
FAQ - features definitions, user guidance, etc.
User Preferences - allows the user to change or update user names, passwords, etc. at any time.