
TIPS AND TRICKS

SECURING GROUND CONTROL POINTS FOR GEOREFERENCING DRONE IMAGERY

LEE WEST, HIPHEN
LWEST@HIPHEN-PLANT.COM

EXTRACTION EFFICIENCY – METHOD CONSIDERATIONS

Historically, extraction efficiency has not always been demonstrated for pesticide residue methods which may result in the underestimation of sample residues from regulatory studies.

To use these studies for Product Registration, extraction efficiency has to be proven. What should we do if we either don't have, or have access to, extraction efficiency data?

What is the solution?

DEREK BROWN, SMITHERS
DEREK.BROWN@SMITHERS.COM

AERIAL PLOT – CLOUD SOFTWARE

BRADY DREAMER, AERIAL PLOT
BRADY@AERIALPLOT.COM

Intuitive Cloud Software

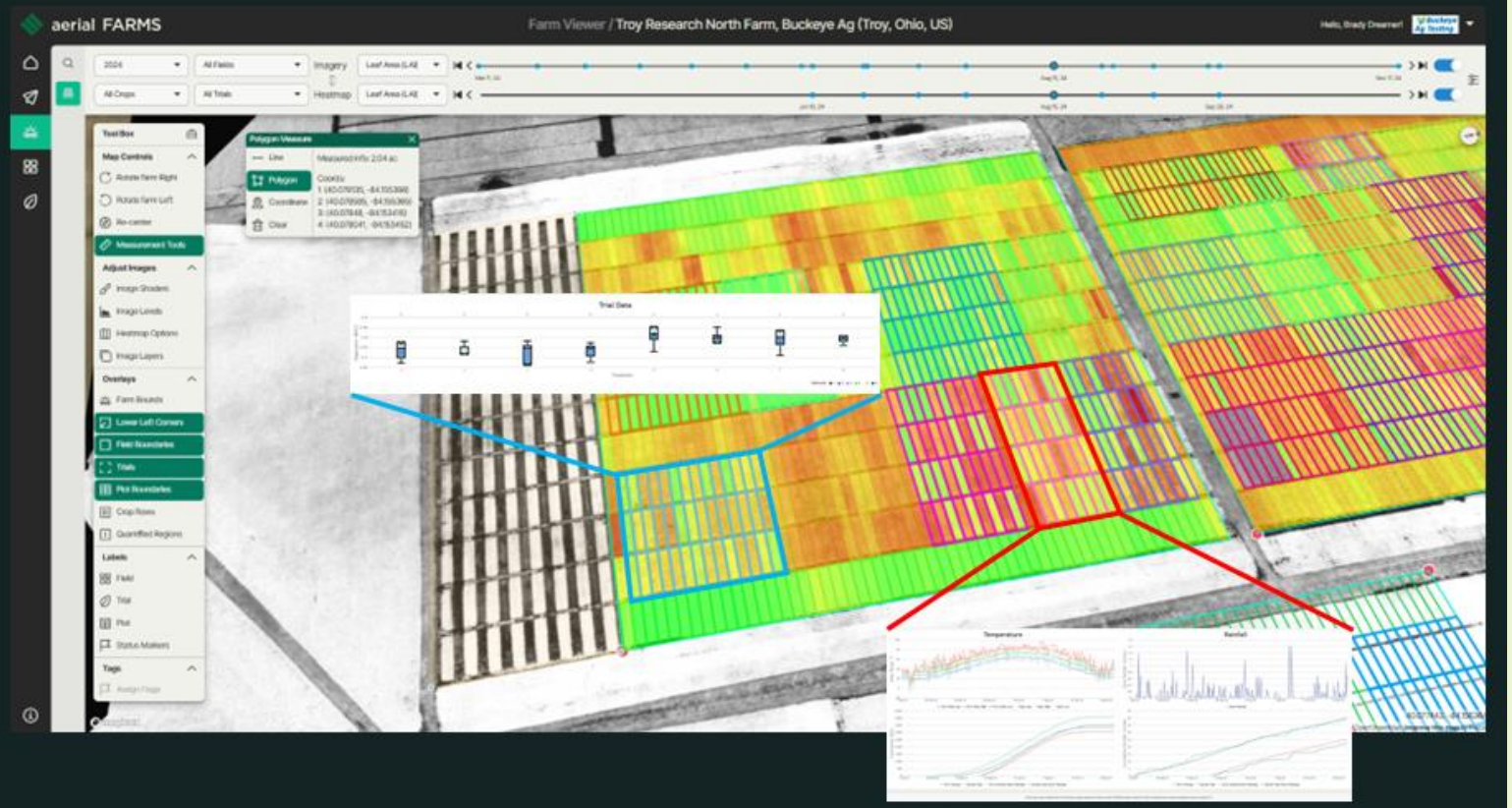
aerial PLOT

aerial FARMS Advantages

- Year on year plot quality
- View field spatial variability
- Virtual scouting
- Secure access & sharing

Useful Features

- Measurement tool
- Heatmap shading
- Visualize box plots
- Download weather data (NASA POWER)
- Advanced plot metrics available (please inquire)



Dashboards and geospatial viewers focused on collaboration & driving business decisions

DRONE IMAGERY FOR PEST DEFOLIATION ASSESSMENTS

EVAN MACDONALD, ATLANTIC AGRITECH
EVAN@ATLANTICAGRITECH.COM

- **Colorado Potato Beetle trials involve counting egg masses, larvae by stage, adults, and providing a % defoliation estimate per plot.**
- **Tested the use a combination of drone imagery and software to count the number of flowers remaining per plot following CPB feeding.**
- **Drone flight ~40 ft above plots, processed the imagery in Solvi. Trained a few images in detecting flowers using Solvi's built in AI tools.**
- **Zonal statistics tools within Solvi calculated number of flowers per plot, import to ARM for statistical differences.**

USING MICROSOFT TOOLS

- Using the Microsoft “To Do” app to schedule and stay on track with daily events
- Using Teams to keep ARM files and other data files centrally located for all employees to access

DENISE WRIGHT, SYNTECH
WRIGHTPME@AOL.COM

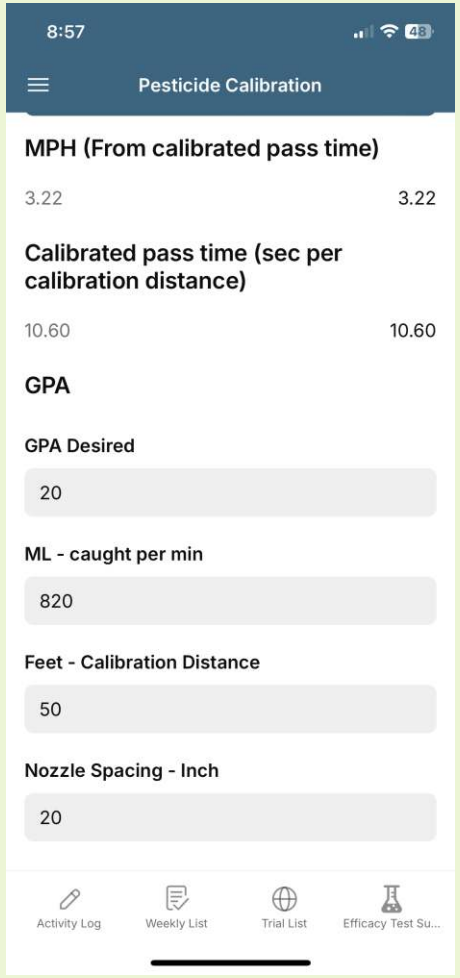
INJECTION APPLICATIONS

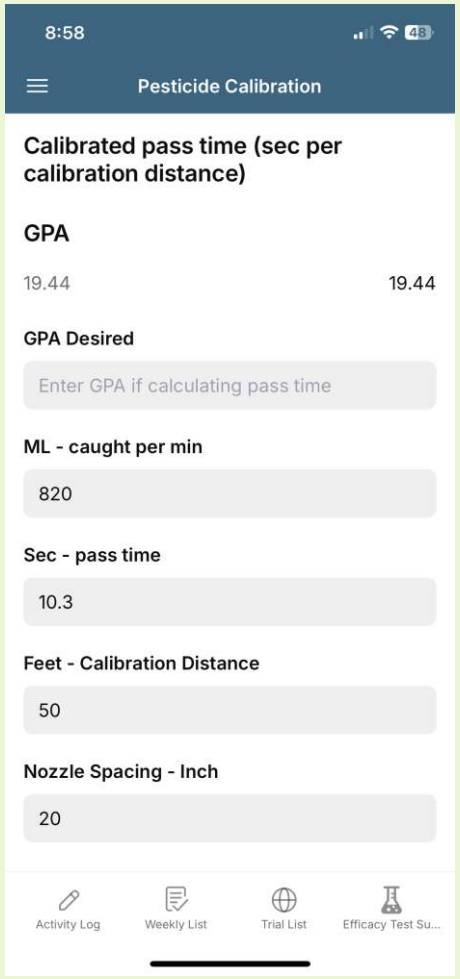
- Injection applications – usually require CO_2, plastic bottles, and connectors for each plot. Now, we only use syringe, mixing rates are calculated by plot area.
- Use a multi-crop trial system allows us to generate data on multiple crops simultaneously when same rate and applications are required.

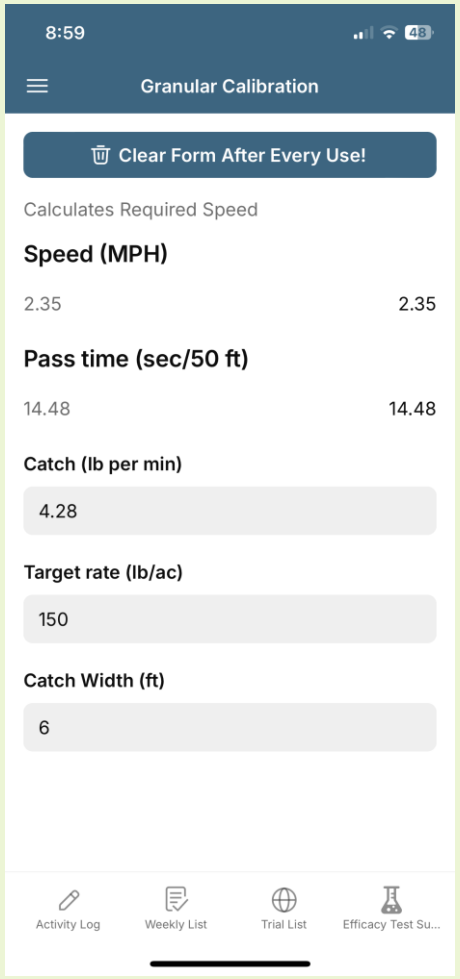
EDUARDO NEVES, GLADES CROP CARE
ENEVES@GLADESCROPCARE.COM

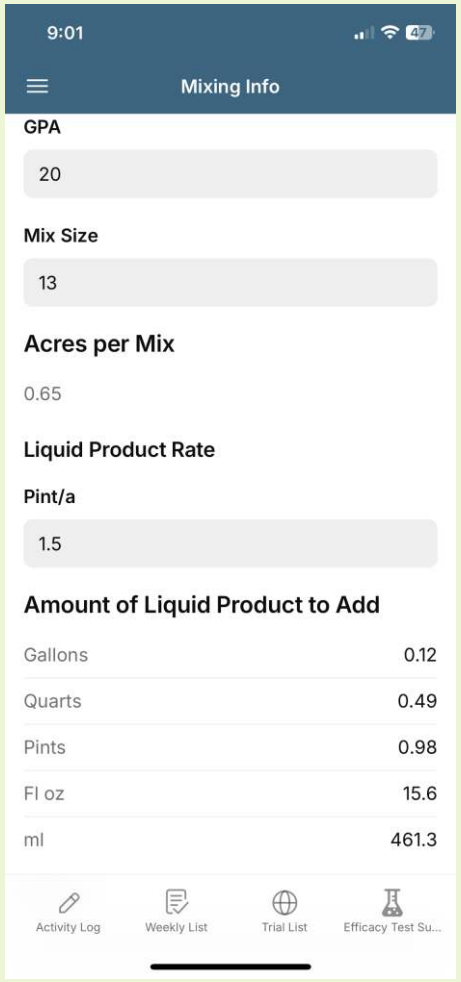
IN-HOUSE APPS FOR CALIBRATION

DAVID MOORE, SOUTHEAST AG RESEARCH
MOORE@SEAGR.COM









Created with Glide (no-code app builder)

Liquid Calibration

Granular Calibration

Mixing