

Title - Can you continue to ignore the benefits of HLD Emulsion Technology?

Authors

Carl Austin & Alejandro Gutierrez

Location

Field Trials – Costa Rica & Belice

Laboratory Trials – VLCl Barcelona

Carl Austin – (caustin01@btinternet.com) / Alejandro Gutierrez – (a.gutierrez@vlci.biz)

Presentation - Summary

Current oil-in-water macroemulsion (O/W) mixing guidelines do not adequately measure the surfactant & oil characteristics of fungicide cocktails for Sigatoka control.

Trials (figure #1) proved that a new O/W macroemulsion balance for an oil miscible liquid (OL) fungicide (fenpropimorph) formulation improved control, whereas, the results for suspension concentrate (SC) and Emulsifiable concentrate (EC) treatments were inconclusive. So why did the OL macroemulsion improve control but not the EC nor SC?

An HLD (Hydrophilic-Lipophilic Difference) approach measures the required balance for each any fungicide formulation in macroemulsion, creating optimum stability for any fungicide/oil combination.

Figure #2 shows how HLD boosts emulsion balance & stability for the same fungicide formulations in macroemulsions vs. standard mixing processes and enables a microemulsion option with 3+ days stability.

HLD guides mixing station personnel to make practical formulation decisions to ensure rapid and stable emulsification, can you continue to ignore HLD oil emulsion technology any longer?

Download at www.bananaexpert.com

Figure 1

Impact of boosting emulsion stability on Sigatoka Control:
Fungicide OL (Fenpropimorph) Emulsion #1- standard mixing process vs. Emulsion #2 with a new macro emulsion balance

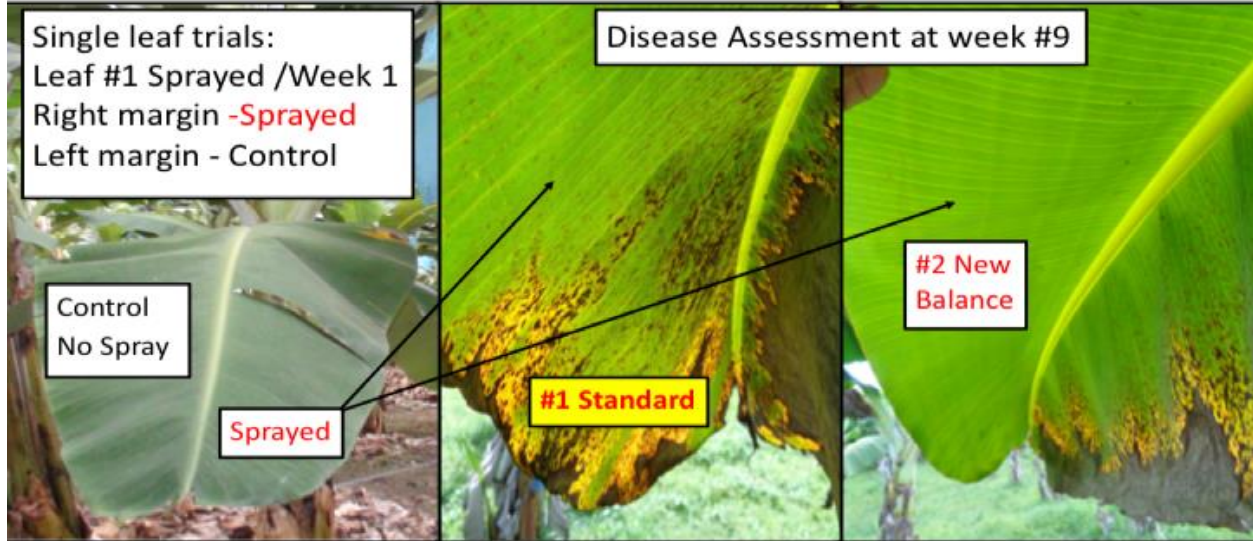


Figure 2

Can you afford to ignore the benefits of HLD emulsion technology?

x3 fungicides (OL/SC/EC) formulated with HLD vs. the standard mixing process

