Peanut Yield Monitoring

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2014 Georgia Peanut Tour
Sylvania, GA
September 18, 2014
Prior Peanut Yield Monitor Studies

- **PYMS** (Thomas et al., Durrence, et al.)
  - Load cells below basket
  - Good field/load level accuracy
  - Low resolution vs. mass flow
  - Never commercialized

- **Ag Leader Cotton System**
  - Through-beam optical sensors
  - No longer available

- **Impact Plate Grain System**
  - Began in 2012, patent pending
Impact Plate Mounting - Basket Inlet
Peanut Impact Plate Operation
Example Data of 2013 Impact Plate Accuracy

6.6% Error

$R^2 = 0.83$
Variable Depth Peanut Digger

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Top Link Adjustment: Proper Setting

Adapted from: caes.uga.edu
Top Link Adjustment: Too Deep

Adapted from: caes.uga.edu
Top Link Adjustment: Too Shallow

Adapted from: caes.uga.edu
Soil Texture Management Zone Definition

Clay EC Zone
Medium EC Zone
Sand EC Zone
Thank you to our cooperators

Joe Boddiford Farm, Sylvania GA – Walker Nix Farm, Blackville SC
Roger Bates Farm, Blackville SC – Crapse Farms, Estill SC
Rogers Brothers Farm, Hartsville, SC