

Hamilton County Peanut Fungicide On-Farm Trial Introduction

The 2014 Hamilton County Peanut Fungicide On-Farm Trial was organized by UF/IFAS Hamilton County Agriculture Extension Agent Keith Wynn and UF/IFAS Extension Plant Pathologist, Dr. Nicholas Dufault, in a commercial peanut field in Hamilton County. The efficacy of four fungicide programs for the control of foliar and soil borne diseases in peanut production were compared. Yield and quality were measured on peanuts

harvested from plots consisting of 24 rows each and replicated 4 times. This year the agro-chemical companies participating in the trial were Bayer, Syngenta, Nichino, and BASF. Each of the agro-chemical companies products were applied approximately every 14 days starting 53 days after planting. In this trial peanuts were planted on April 21, 2014 and harvested on September 22, 2014 using the cooperating producer's equipment.

| Chemical | Average Yield Per Acre | Price Per Ton Based on Grade | Price per Acre Based on Grade |
|----------|------------------------|------------------------------|-------------------------------|
| Bayer | 6412 | 367.53 | 1178 |
| Syngenta | 6554 | 368.33 | 1207 |
| BASF | 6644 | 367.53 | 1221 |
| Nichino | 6480 | 369.94 | 1199 |

Plant Date 4/21/2014

Inverted Date 9/18/2014

Harvest Date 9/22/2014

Note: Prices are based on the 2014 Peanut Price Schedule. Yield represents pounds per acre. (Statistical significance has not been analyzed)

Spray Program

| | 4/21/2014 | 6/13/2014 | 6/26/2014 | 7/11/2014 | 7/28/2014 | 8/12/2014 | 8/26/2014 |
|----------|----------------------|--|---|---|---|---|-----------------------------|
| | Infurrow at Planting | 53 DAP | 66 DAP | 81 DAP | 98 DAP | 113 DAP | 127 DAP |
| Bayer | Proline (6 fl oz/a) | Provost (10.7 fl oz/a) | Chlorothalonil (24 fl oz/a) | Provost (10.7 fl oz/a) | Provost (10.7 fl oz/a) | Provost (10.7 fl oz/a) | Chlorothalonil (24 fl oz/a) |
| Syngenta | Proline (6 fl oz/a) | BravoWS (24 fl oz/a) & Monsoon (7.2 fl oz/a) | BravoWS (24 fl oz/a) & Monsoon (7.2 fl oz/a) | Abound 2.08SC (18 fl oz/A) & Alto (5.5 fl oz/A) | BravoWS (24 fl oz/a) | Abound 2.08SC (18 fl oz/A) & Alto (5.5 fl oz/A) | BravoWS (24 fl oz/a) |
| Nichino | Proline (6 fl oz/a) | Headline (9 fl oz/a) | Artisan (16 fl oz/a) Chlorothalonil (16 fl oz/a) | Artisan (16 fl oz/a) Chlorothalonil (16 fl oz/a) | Artisan (16 fl oz/a) Chlorothalonil (16 fl oz/a) | Artisan (16 fl oz/a) Chlorothalonil (16 fl oz/a) | Chlorothalonil (24 fl oz/a) |
| BASF | Proline (6 fl oz/a) | Priaxor (6 fl oz/a) | Chloro. (24 fl oz/a) & Monsoon (7.2 fl oz/a) | Priaxor (8 fl oz/a) | Chloro. (24 fl oz/a) & Monsoon (7.2 fl oz/a) | Chloro. (24 fl oz/a) & Monsoon (7.2 fl oz/a) | Chlorothalonil (24 fl oz/a) |

