

XVI. EVALUATION OF SEED TREATMENTS FOR CONTROL OF EARLY SEASON DISEASES OF PEANUT (PSEED106 - Tidewater AREC Research Farm)

- A. PURPOSE: To compare the efficacy and benefit of seed treatment fungicides for control of seedling diseases of peanut
- B. EXPERIMENTAL DESIGN:
1. Four randomized complete blocks with 10-ft alleyways between blocks
 2. Two 30-ft rows per plot
 3. Seeding rate of 3 seed/row ft
- C. APPLICATION OF TREATMENTS: Dust treatments were applied to seed with a Gustafson lab treater. Seed were planted ca. 1.5 to 2 in. deep.
- D. TREATMENT AND RATE (Main plots):
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| 1. Untreated check | 5. Vitavax PC 4 oz/cwt |
| 2. Trilex Optimum DS 4 oz/cwt | 6. L1492-A DS (22.8% prothioconazole) 4 oz/cwt |
| 3. Trilex Star DS 4 oz/cwt | 7. L1494-A DS (23.8% prothioconazole) 4 oz/cwt |
| 4. Dynasty PD 4 oz/cwt | 8. L1138-A DS (confidential) 4 oz/cwt |
- E. ADDITIONAL INFORMATION:
1. Location: Tidewater AREC Research Farm, Hare Road, Suffolk
 2. Crop history: wheat/soybean 2003, peanut 2004, wheat/soybean 2005
 3. Planting date and cultivar: 25 Apr 2006, NC-V 11, Lot #244, 74% germ
 4. Soil fertility report:

pH	6.5	K	42 ppm
Ca	344 ppm	Zn	0.8 ppm
Mg	71 ppm	Mn	2.6 ppm
P	33 ppm	Soil type	Goldsboro fine sandy loam
 5. Herbicide: Pre-plant – Prowl H20 1 pt/A (27 Mar)

Dual II Magnum 1 pt + Strongarm 0.23 fl oz/A (10 Apr)

Pre-emergence – Dual II Magnum 1 pt + Strongarm 0.23 fl oz + Gramoxone Inteon 1 pt/A (5 May)

Post-emergence – Pursuit 70DG 1.44 oz/A (5 May)
 6. Cylindrocladium black rot control: Vapam 7.5 gal/A (7 Apr)
 7. Insecticide: Orthene 97S 8 oz/A (31 May)

Lorsban 15G 13 lb/A (29 Jun)
 8. Acaricide: Danitol 6 oz/A (30 Jun), 10 oz/A (8 Aug)
 9. Leaf spot control: Folicur 3.6F 7.2 fl oz + Induce 2.4 fl oz/A (19 Jul, 4 Aug); Headline 9 fl oz/A (23 Aug); Bravo WS 1.5 pt/A (8 Sep)
 10. Additional crop management:
 - a. Liquid boron (9%) 1 qt/A (27 Mar)
 - b. Landplaster: Peanut Maker 1200 lb/A (20 Jun)
 - c. Cultivation: 29 Jun
 - d. Liquid Mn 3 pt/A (7 Jul, 20 Jul).
 - e. Irrigation: ca. 0.75 in. (11 Aug, 14 Aug)
 11. Harvest date: 11 Oct 2006