

## **XIX. MANAGEMENT OF TSWV AND NEMATODES IN PEANUTS (PNEMA206 - Tidewater AREC Research Farm, Suffolk)**

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- A. **PURPOSE:** To compare the response of peanut varieties and tomato spotted wilt virus to in-furrow treatments for control of nematodes and tobacco thrips
- B. **EXPERIMENTAL DESIGN:**
1. Four randomized complete blocks separated by 15-ft alleyways
  2. Four 25-ft rows per plot with 36-in. row spacing
- C. **APPLICATION OF TREATMENTS:** Chisel application of Vapam 42% was applied 8 in. under each row on 7 Apr. A single chisel was centered in each row and rows were bedded (24 in. wide and 4 in. high) during application. Granular treatments were applied in-furrow at planting.
- D. **TREATMENT AND RATE/A**
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|-------------------------|--------------------------|---|
| 1. Untreated Check      | 3. Temik 15G 7 lb/A (F)  | 5. KC791230 15G 5 lb/A (F)                    |
| 2. Temik 15G 5 lb/A (F) | 4. Thimet 20G 5 lb/A (F) | 6. Vapam 7.5 gal/A (C) + Temik 15G 5 lb/A (F) |
- 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: 9 May, VA 98R
  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 1 pt/A (27 Mar);  
Dual II Magnum 1 pt + Strongarm 0.23 fl oz/A (10 Apr)  
Dual II Magnum 1 pt + Strongarm 0.23 fl oz + Gramoxone Inteon 1 pt/A (5 May)
  6. Insecticide: Orthene 97S 8 oz/A (31 May)  
Lorsban 15G 13 lb/A (29 Jun)
  7. Acaricide: Danitol 6 oz/A (30 Jun), 10 oz/A (8 Aug)
  8. 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)
  9. Additional crop management:
    - a. Liquid boron 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. Sol-U-Gro 5 lb/A (20 Jul)
    - f. Irrigation: ca. 0.75 in. (11 Aug, 14 Aug)
  10. Harvest date: 11 Oct 2006