# **Conservation Tillage and Herbicide Management for Two Peanut Varieties. (C03-tubbs134109-Poster)**

#### Authors:

- R.S.Tubbs University of Florida Agronomy Dept.
- R.N.Gallaher University of Florida Agronomy Dept.

## Abstract:

To reduce production costs and soil erosion, many peanut (Arachis hypogaea) farmers in Florida are converting to conservation tillage systems. A split-split plot experiment with six replications was conducted over 2-yr to evaluate yields and weed control from five tillage systems, two peanut varieties ('Georgia Green' and 'Andru 93'), and two herbicide programs (Starfire + Storm and Cadre). Peanut planted directly into rye (Secale cereale) straw (6576 kg/ha in 1999; 4104 kg/ha in 2000) provided equal yields as conventional tillage (6272 kg/ha in 1999; 3992 kg/ha in 2000), and was much higher than the state average (3105 kg/ha in 1999; 2786 kg/ha in 2000). Georgia Green yielded higher (p<0.001 in 1999; p<0.10 in 2000) than Andru 93. Yields were greater for Starfire + Storm in 1999, but greater for Cadre in 2000. Weeds were controlled more effectively with Cadre both years. Lower weed densities in all plots plus some crop injury by Cadre led to the yield reversal from herbicide programs in 1999. These results show that the benefits of reduced tillage systems in addition to proper variety and weed control program selection can provide both economic and environmental advantages.

### **Corresponding Author Information:**

Ronald Tubbs University of Florida P.O. Box 110730 Gainesville, FL 32611 phone: 352-392-2325 fax: 352-392-9082 e-mail: tubbs@ufl.edu

## **Presentation Information:**

Presentation Date: Wednesday, November 13, 2002 Presentation Time: 4:00-6:00 pm Poster Board Number: 1114

## **Keywords:**

Arachis hypogaea L., strip-tillage, double crop, Secale cereale L.