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**Progress Report to
National Peanut Board
North Carolina Peanut Growers Association**

TITLE: Enhancing Research and Extension Efforts in Peanut Through On-Farm Testing and Field Tours

DEPARTMENTS: Crop Science, Entomology, and Plant Pathology

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Research was conducted in North Carolina during 2007 in Bertie (Peanut Belt Research Station), Chowan, Duplin, Edgecombe (Upper Coastal Plain Research Station), and Sampson counties. Pest management trials evaluating the impact of variety selection, fumigation for CBR, planting pattern (twin row versus single rows), and leaf spot spray programs (calendar versus weather-based advisories) were compared at the Peanut Belt Research Station. Additional variety and pest management trials were conducted at both research stations and on-farm locations. These experiments included runner, Virginia, and Spanish market types grown when a range of pest management and production practices were implemented. Promising new Virginia and runner market type lines were compared at two locations in the state to complement the PVQE program. Peanut response to combinations of inoculants and other agrichemicals were also compared at these locations. The effectiveness of Cadre (postemergence herbicide) and Stance (cotton plant growth regulator) at minimizing excessive vine growth was compared with efficacy of the currently registered plant growth regulator Apogee.

A field tour was held in early August at the Upper Coastal Plain Research Stations to observe a variety of weed management trials including trials designed to compare management of herbicide-resistant weeds. Plot tours designed to enhance Cooperative Extension agent expertise in peanut production and pest management were held at the Peanut Belt Research Station and the Upper Coastal Plain Research Station. Pod maturity clinics were held in Duplin and other counties to assist growers with decision on digging peanut.

IMPACT STATEMENT:

Results from these activities resulted in continued development of a research base needed to address key production and pest management issues associated with peanut production in all regions of North Carolina. Field tours allowed dissemination of information to appropriate clientele and resulted in excellent interaction among components of the peanut industry.