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QUARTERLY PROGRESS REPORT to
the National Peanut Board and the
North Carolina Peanut Growers Association

*considered
Final
since equipment
purchase*

TITLE: A dedicated gas chromatograph for determination of peanut fatty acid

LEADERS: T.G. Isleib, Department of Crop Science

REPORT: This grant covers half the cost of a gas chromatograph that will be installed in the USDA-ARS oilseeds laboratory formerly supervised by Dr. Rich Wilson. All quantitation of fatty acid contents in our program of breeding high-oleic peanuts are performed in this laboratory. Dr. Wilson made these measurements at very low cost to the peanut project but has had to fit in peanut samples between large sets of soybean samples that are the main research objective in his lab. The result has been slow turnaround on the peanut samples. The dedicated GC will increase the capacity of the lab to measure samples and will be used for peanut samples first, so we can have rapid turnaround. The GC was ordered in January, 2002. All ordered components have been delivered and the machine is assembled. The instrument delivered has a single injection port and a single detector due to an error in the requisition.

SUMMARY OF EXPENDITURES

\$26,000.00 has been expended to date on a purchase order to the vendor of the GC. The cost of upgrading to dual ports and detectors will be borne by sources other than the National Peanut Board.