rapidly. The constant rainfall caused the plots treated with urea to grow more rapidly than normal, possibly exposing unprotected plant tissue to disease pressure. The other fungicide compounds performed as expected with the exception of the benzimidazoles (Tersan 1991, Fungo 50, Cleary 3336) which failed to control the disease. Laboratory analysis of the dollar spot strains in this plot area indicated a high level of benzimidazole resistance.

Two experimental fungicides showed some phytotoxic effects in the study this year. These effects are explained on the accompanying data tables.

Fermenta Plant Protection Sulfur - Daconil 2787 Disease Studies - 1986

Three studies were established at the Hancock Turfgrass Research Center this summer with the goal of determining the effect of sulfur and Daconil 2787 FL on various turfgrass diseases. In order to screen these materials against the broadest possible disease range, one study was established on Emerald creeping bentgrass, one was established on annual bluegrass (<u>Poa annua</u>) and a third study was placed on perennial ryegrass. Treatment were applied on a 14 day interval using a CO_2 small-plot sprayer which operated at 30 PSI with a volume of 48 gal per acre. All studies were laid out in three replications of a random block design.

Emerald Creeping Bentgrass Study

This study was established and treated initially on June 27 on an irrigated, moderately fertilized putting green which was mowed regularly at 1/4" height of cut. Treatments were applied until Sept. 18 with a dollar spot (<u>Moellerodiscus sp. Lanzia sp.</u>) rating being taken on Sept. 29. By the date of the disease rating (Table 6), treatments had been applied 7 times (6/27, 7/17, 7/25, 8/7, 8/21, 9/3, 9/18). No phytotoxic or other growth effects were noted throughout the season. No other disease outbreaks were observed.

Annual Bluegrass Study

The study described above was also established on annual bluegrass (<u>Poa annua</u>) in an attempt to determine the effect of Daconil 2787 and sulfur on anthracnose (<u>Colletotrichum graminicola</u>) development. The area we chose was an irrigated, moderately fertilized simulated fairway location where we had hoped to experience anthracnose disease pressure. Treatments were applied initially on June 27 and were re-applied on a 14 day interval through September 18. Unfortunately, no disease pressure developed on this turf area and no data was collected. No phytotoxic or other growth effects were noted.

Perennial Ryegrass Study

The study was also established on a Loretta perennial ryegrass simulated lawn area in an attempt to collect brown patch (<u>Rhizoctonia</u> <u>solani</u>) and/or Pythium blight (<u>Pythium sp</u>) data. The area was fertilized heavily beginning in June in an effort to encourage brown patch development. Moisture levels were kept high through frequent