Summary

With the object of evaluating the occasional damage caused by different pathogens of seeds,

seedlings, shoots, and adult plants of 138 *Leucaena* accessions, an experiment was carried out from April to July 1986 in CIAT, Palmira, Colombia, which included field observations and laboratory studies. Leaf diseases caused by *Pseudomonas fluorescens* Biotype II and *Fusarium* species were studied in the field. The effects of Kocide (copper hydroxide) and Difolatan on the growth of the last two pathogens were evaluated in the laboratory.

Results showed that the fungus *Camptomeris leucaenae* attacked, principally, *L. leucocephala*, and brown spot attacked *L. macrophylla*. Rotting caused by *P. fluorescens* Biotype II, diseases caused by *Fusarium* species, and mildew were found in all the *Leucaena* species evaluated. Pods inoculated with *Fusarium* species or *P. fluorescens* Biotype II were completely rotted eight days after inoculation. Kocide and Difolatan applications significantly reduced the incidence of colonies formed by microorganisms on pods and seeds.