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As you probably know, Dr. C. P. Wilsie, who died in January 1969, was in charge of research on birdsfoot trefoil here at Iowa State University. For the past year, a graduate student, Mr. Ambrocio Conje, and I have continued some work on trefoil. Mr. Conje is evaluating crosses within and between two diverse sources of germ plasm of birdsfoot trefoil for his Ph.D. research. Selections from the varieties Empire and Carroll were used in his study. Carroll (formerly designated Iowa R-1) is a new variety released by the Iowa Agricultural Experiment Station in April, 1970. It is derived from two Russian introductions. Mr. Conje has evaluated F_1 and F_2 progenies for growth habit, maturity, forage yield, seed set, seed size, seedling vigor, and winter hardiness.

We are cooperating in the evaluation of 12 experimental strains and 4 varieties for crown and root-rot reaction. Dr. S. A. Ostazeski, Beltsville, Maryland, set up this trial, and he is interested in studying variation in effects of crown and root rot in several states including Missouri, Virginia, New York, and Iowa. Also, we are cooperating in a North Central States regional test of birdsfoot trefoil clones. This work is being done under NC-83, a regional project entitled "Seed Production of Breeding Lines of Insect Pollinated Legumes". The objective of the research is to determine (a) whether association between seed production potential and morphological and/or physiological plant characteristics exist and (b) if such associations are of sufficient magnitude to be useful in identifying plants with both desirable forage and seed production potential.

Finally, we are doing a limited amount of variety testing.