

SUMMARY RESEARCH PROGRESS REPORT FOR 1989
AND RESEARCH PROPOSAL FOR 1990

Submitted to:
SLV Research Center Committee
and the
Area II Potato Administrative Committee

TITLE: Evaluation of Advanced Clones for Bacterial Ring Rot Expression

PROJECT LEADERS: Robert D. Davidson and Dr. Gary Franc

PROJECT JUSTIFICATION: Bacterial ring rot is a significant problem in the San Luis Valley to both seed producers and commercial growers. The Valley has a unique environment which can influence the degree of bacterial ring rot symptom development seen in the crop. In addition, varieties will vary in their expression of bacterial ring rot. There is the possibility of releasing a variety which may have characteristics coupled with the SLV environmental factors that limit the visual symptom development to ring rot in the field. This could potentially expose ring rot free stocks to an undetected source of inoculum. Therefore, it is important to know the response of advanced clones to infection by bacterial ring rot before they are released to potato growers. This information will be generated early enough in the clone's development for consideration prior to the clones release and eventual naming.

PROJECT STATUS: This is a continuing project that has been funded for the past several years. Dr. Monty Harrison is retiring and the project will be continued by the project leaders listed above. Each advanced clone usually receives 3 years of testing prior to release.

OBJECTIVES FOR 1990: Fifteen to twenty advanced clones from the Colorado Cultivar Development program will be inoculated and evaluated in the field in the San Luis Valley.

FUNDING REQUEST:

1989 Allocation: \$2350.00

1990 Request: \$2400.00 (Increase reflects screening two new methods of inoculation for comparison with the method currently used)