

RESEARCH PROPOSAL FOR 1986

David G. Holm

1. The potato breeding and selection program will be continued. Advanced clones will be tested in yield trials.
2. The Colorado Western Regional Trial will be conducted again.
3. The Sangre line selections will be tested again. Pending results of various trials, the Sangre lines performing better than the standard will be released to growers in 1987.
4. Micropropagation will be examined as a technique to select potato clones for various characteristics such as low nutritional requirements. This will be done cooperatively with Mike Thornton.
5. The influence of physiological age of seed on yield and yield components will be studied again.
6. Streptomycin-oxytetracycline seedpiece treatment studies will be continued cooperatively with Rob Davidson.
7. The seed increase of flat leaf, yellow leaf, and pebble leaf mutations of Centennial Russet will continue. This seed will be used to plant a yield trial in 1987.

BUDGET REQUEST

POTATO BREEDING AND SELECTION PROGRAM

Labor	\$3,900.00
Travel	700.00
Equipment & Supplies	<u>1,500.00</u>
TOTAL	\$ 6,100.00

CULTURAL AND PHYSIOLOGICAL STUDIES

Labor	\$2,100.00
Travel	300.00
Equipment & Supplies	<u>500.00</u>
TOTAL	\$2,900.00
GRAND TOTAL	\$9,000.00