

RESEARCH PROPOSAL FOR 1987

David G. Holm

1. The potato breeding and selection program will be continued. Advanced clones will be tested in yield trials, out-of-state trials, and by growers.
2. The Colorado Western Regional Trial and Regional Chip Trial will be conducted again.
3. The Sangre selections will continue. Out-of-state trials will be conducted to determine adaptability and stability of the yield advantage observed. The incidence of PVX and PVS will be checked again. Perhaps the clones differ in their resistance to these viruses.
4. A study to compare the performance of Centennial Russet mutations (flat leaf, yellow leaf, and pebble leaf) will be initiated.
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.

BUDGET REQUEST

POTATO BREEDING AND SELECTION PROGRAM

Labor	\$4,600.00
Travel	700.00
Equipment & Supplies	<u>1,600.00</u>
TOTAL	\$6,900.00

CULTURAL AND PHYSIOLOGICAL STUDIES

Labor	\$2,300.00
Travel	300.00
Equipment & Supplies	<u>500.00</u>
TOTAL	\$3,100.00

GRAND TOTAL	\$10,000.00
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POSTHARVEST EVALUATIONS
RESEARCH PROPOSAL FOR 1987

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1. Evaluate blackspot susceptibility of advanced selections from the breeding program, Western Regional trials, and advanced selections from other states.
2. Evaluate weight loss during storage of advanced selections to determine relative storability and determine potential weaknesses of these materials.
3. Evaluate dormancy and sprout growth of advanced selections during storage.
4. Evaluate fry color and texture of advanced selections to determine processing potential.

BUDGET REQUEST

Labor	\$1,850.00
Supplies	<u>750.00</u>
TOTAL	\$2,600.00