

1985 RESEARCH PROJECTS

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Area Extension Potato Specialist

1. SEEDPIECE TYPE

Co-investigators: David Holm and Mike Horton

Location: Growers' fields, Carmel area

Purpose: To establish demonstration plots to compare the performance of seedpiece types.

Cultivars: Centennial Russet, Sangre

Seed: Fresh cut, cut and suberized (2 mo); single drop; grower's seed.

Growers: Clifford and Lynn Coleman

Greg and Mark Bahr

Jim Seese

Ray Price

Tom Ford

(John Kelly)

Parameters: Stand, crop vigor, yield.

2. SEED SOURCE

Location: Roguing plot, SLV Research Center

Purpose: To demonstrate disease incidence and yield differences between certified and common seed.

Cultivar: Russet Burbank

Source: Certified seed growers (4) and local cooperatives (4)

3. STARTER FERTILIZER

Co-investigator: Mike Thornton

Location: SLV Research Center

Purpose: Evaluate the efficacy of phosphorus solutions as pre-plant starter fertilizer for minitubers.

Cultivar: Russet Burbank

Treatments: Distilled water

30 ppm P

60 ppm P

120 ppm P

Parameters: Emergence, growth, vigor and yield.

4. PRELIMINARY SOIL FERTILITY

Co-operator: Wayne Davis

Co-investigators: Merl Dillon and Mike Thornton

Location: Wayne Davis Farm

Purpose: Evaluate fertilizer recommendations of several soil-test labs (based on a common soil sample) on performance of potatoes followed by barley.

Laboratories: Western Labs  
Stukenholtz  
Harris  
Servi-Tech  
CSU

Parameters: (Potatoes): Stand, vigor, petiole nitrate, yield.

(Barley): Vigor, yield, crude protein

BUDGET

<u>EXPERIMENT 1:</u>	Labor	\$ 600.00	
	Materials	50.00	
	Transportation	<u>100.00</u>	
	TOTAL		\$ 750.00
<u>EXPERIMENT 2:</u>	Labor	\$ 100.00	
	Materials	75.00	
	Transportation	<u>50.00</u>	
	TOTAL		\$ 225.00
<u>EXPERIMENT 3:</u>	Labor	\$ 200.00	
	Materials	<u>50.00</u>	
	TOTAL		\$ 250.00
<u>EXPERIMENT 4:</u>	Labor (2 Years)	\$ 600.00	
	Lab Tests: Soil (2 Years)	200.00	
	Nitrate N	200.00	
	Crude Protein	<u>130.00</u>	
	TOTAL		<u>\$1,130.00</u>
	GRAND TOTAL		\$2,355.00