

apparently healthy potato varieties. Accordingly, tuber grafts between apparently healthy Green Mountain and healthy Duke of York and Paul Kruger, and between healthy Bliss Triumph and healthy Paul Kruger varieties were made. Necrosis developed only on Duke of York and Paul Kruger within thirty days after grafting and planting. Some shoots developed necrotic symptoms after appearing but a few centimeters above the soil; others did not manifest necrosis until thirty or more centimeters tall.

In like manner scions from apparently healthy Green Mountains on healthy Paul Kruger and Bravo have produced necrosis in the axillary shoots of the stock. Healthy Paul Kruger and Bravo scions on healthy Green Mountains resulted in necrosis on the scions only.

Necrosis also developed from juice inoculations by means of leaf mutilation between apparently healthy Green Mountains and the susceptible apparently healthy potato varieties and seedlings.<sup>5</sup> Likewise, tuber grafts between apparently healthy Irish Cobbler, Russett Rural New Yorker, Rose 4, Bliss Triumph and certain potato seedlings resulted in necrosis on the seedlings only. Juice inoculations from such necrotic seedlings on apparently healthy seedlings resulted in necrosis on the inoculated seedlings. The controls in each case remained healthy.

No mottling as described by Johnson<sup>6</sup> in his cross-inoculations between healthy potato and tobacco has been observed in these inoculations between apparently healthy potato varieties. Although these observations appear very similar in other respects, they differ mainly from Johnson's results in that here we have a similar reaction resulting from transmission of juice between apparently healthy plants in the same species.

Experience with virus diseases in plants as well as with certain animal diseases has disclosed that certain individuals may act as symptomless carriers of the infecting agent. It is probable that such a condition obtains here. With this suggestion it appears necessary to assume that the necrosis in question is not the same as the so-called "streak" which it closely resembles, since evidence has shown that the Green Mountain as well as other American varieties used in this investigation is susceptible to this malady.

A more detailed account of this investigation will be presented in a later paper.

E. S. SCHULTZ

BUREAU OF PLANT INDUSTRY,  
U. S. DEPARTMENT OF AGRICULTURE

<sup>5</sup> Seedlings as used in this paper includes plans from potato tubers originated from potato seed several years ago.

<sup>6</sup> *Loc. cit.*

## FINANCIAL REPORT OF THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION

FINANCIAL REPORT OF THE SECRETARY-TREASURER  
FOR THE

NINE-MONTH PERIOD ENDING SEPTEMBER 30, 1925

January 1, 1925, Cash Balance ..... \$1,863.35

### Receipts:

Received from the Permanent Secretary's Office .....	\$671.00	
Affiliated societies .....	135.00	
Dues and fees .....	275.00	1,081.00
		<hr/> \$2,944.35

### Expenditures:

Dues remitted to Permanent Secretary's Office .....	\$155.00	
Supplies .....	16.24	
Postage and express .....	25.42	
Salary .....	675.00	
Telephone and telegraph .....	11.36	
Expense, general .....	15.66	
Expense, travel .....	88.41	
Office assistance .....	225.00	
Membership campaign .....	16.75	1,228.84
		<hr/>
October 1, 1925, Cash Balance .....		\$1,715.51

### BALANCE SHEET, SEPTEMBER 30, 1925

#### Assets

Equipment .....	\$ 253.37
Cash on hand .....	1,715.51
	<hr/> \$1,968.88

#### Liabilities

Permanent Secretary's Office .....	\$1,615.51
Investment .....	253.37
Sundry creditors .....	100.00
	<hr/> \$1,968.88

### SUMMARY OF DISBURSEMENTS FOR THE NINE-MONTH PERIOD ENDED SEPTEMBER 30, 1925

Supplies .....	\$ 16.24	
Salary .....	675.00	
Office assistance .....	225.00	
Postage and express .....	25.42	
Telephone and telegraph .....	11.36	
Expense, general .....	15.66	
Expense, travel .....	88.41	
Membership campaign .....	16.75	1,073.84
		<hr/>

These disbursements have been made  
from funds derived as follows:

Affiliated societies .....	\$135.00	
Initiation fees .....	120.00	
Balance from Permanent Secretary's Office (Membership dues)...	818.84	\$1,073.84
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W. W. SARGEANT,  
Secretary-Treasurer