

FIELD EXPERIMENTS 1957

Crop: Potatoes.

Field: 17 acres.

Experiment: Control of leaf roll and rugose mosaic (virus Y.)
by insecticide spraying.

Treatments & Layout: 5 x 5 Latin square (3rd year)

D.D.T. emulsion at 2 lb of active ingredient per acre.

1. Sprayed 6 times:- first at 100% emergence, second after 10 days, and last four at fortnightly intervals.
2. Sprayed on 2nd and 4th occasions.
3. Sprayed on 2nd occasion.
4. Sprayed on 4th occasion.
5. Unsprayed.

Plot Size: 40^x x 27 rows @ 28" (= 21^x) 840 sq yd (= 1/6 acre)

Manuring with dates of:

12 loads/acre of F.Y.M. in January and February, 1957.

8 cwt/acre of 10:10:15 compound placed by planter.

Date of drilling: 18.3.57.

Variety: King Edward

Seed Rate: Approx.

1 ton/acre.

Date of setting up aphid traps: May 1st 1957.

Date of 1st Spray: 6.6.57. 3rd spray: 1.7.57. 5th spray: 29.7.57.

2nd spray: 17.6.57. 4th spray: 15.7.57. 6th spray: 13.8.57.

Date of Blitox sprays: July 5th and 17th, August 1st.

Remarks (~~previous cropping, cultivations, etc.~~)

Date of Burning off haulm: August 28th.

Date of Harvest. Oct 24 - 26 57

Remarks (previous cropping, cultivations, etc.)

1956 Spring Cereal Trials.

1955 Sugar Beet Trials.

Note Book No.

1954 Vining Peas.

1957 Potato Spraying Trial Data

Aphid Counts 12th July, 1957.

Treatment	Aphids per 100 leaves	
	Myzus Persicae	Others
1	1	9
2	9	7
3	7	9
4	5	15
5	17	14

Virus disease 12th July, 1957.

Counts of 1,500 plants per treatment.

Treatment	Leaf Roll	Rugose mosaic
1	10	0
2	2	5
3	28	0
4	12	13
5	32	1
Total in 7,500 plants	84	19
	1.1%	0.25%