

FIELD EXPERIMENTS 1958

Crop: Sugar Beet

Field: Loke Piece

Experiment: Control of Virus Yellows by spraying.

Treatments &amp; Layout: 4. Treatments in Latin Square.

1. No Spraying
2. Early Spraying
3. Late Spraying
4. Spraying on both occasions

Plot Size: Treatment 30 rows x 30 yards (row width 20")

Harvest 10 x 30 ft lengths of row per plot.

Manuring with dates of:

2 cwt Kainit, 2 tons Lime, and 10 tons F.Y.M. per acre in autumn.  
10 cwt of 9:6:15.

Top dressing 2 cwt N.C. May 2<sup>nd</sup> after singling.Date of drilling: April 2<sup>nd</sup> Variety: Sharpes Klein E Seed Rate: 8 - 10 lbs/acre.

Date of 1st Metasystox spray: 6th June, 1958.

Water in tank 150 gals.

Date of 2nd Metasystox spray: 20th June, 1958.

Metasystox 48 fl. oz.

Date of virus counts: 1.8.58 and 3.9.58

Amount of mixture used

Date of Harvest: 1st lift 25.9.58 2nd lift 6.11.58.

35 gal/acre.

Remarks (previous cropping, cultivations, etc.)

1957 Peas and Turnips.

1956 Winter Wheat.

1955 Potatoes.

Note Book No.

/6/19

Results of Virus Yellows Spraying Trial Loke Piece 1958.

Counts of Percentage of Plants Infected with Virus Yellows

Treatment	Counted 1.8.58.	Counted 3.9.58.
No Spray.	45	67
Early Spray.	6	18
Late Spray.	8	17
Two Sprays.	2	10

Treatment/Harvest→ ↓	Yield of clean beet in tons/acre.		Sugar %		Yield of sugar in cwts/acre.	
	Early	Late	Early	Late	Early	Late
No Spray	16.8	18.6	13.4	14.2	44.9	52.7
Sprayed Early	20.7	23.1	14.0	15.2	57.9	70.0
Sprayed Late	21.1	24.2	14.3	15.4	60.5	74.3
Sprayed Twice	21.5	24.3	14.6	15.2	62.6	73.8
Sig. Diffs.	2.1	2.2	0.6	0.6	6.8	7.6
Coeffs. of Var. %	6.2	5.7	2.9.4	2.2	7.0	6.5