

FIELD EXPERIMENTS 1972

POTATO BLIGHT EXPERIMENT

EXPERIMENT: Logarithmic screening of  
potato blight fungicides

SITE: Meggs Land, Morley,  
Norfolk

SOIL TYPE: Sandy loam

TREATMENT AND LAYOUT: 2 systematic replicates

	<u>Peak Dose(Prod/ac)</u>		<u>Peak Dose(Prod/ac)</u>
<u>Antracol</u>	6 lb	<u>Zelmone</u>	6 lb
<u>Blitz Blight</u>	4 lb	<u>Femite A</u>	4 lb
<u>Farmanz</u>	6 lb	<u>Maneb</u>	4.5 lb
<u>Daconil 2787</u>	7.5lb	<u>Sanspor</u>	7.5 pt
<u>Dithane 945</u>	4 lb	<u>Trimanzone</u>	6 lb
<u>Du-ter</u>	4 lb	<u>Trithac</u>	6 lb
<u>Brestan 60</u>	2.5 lb	<u>Polynam Blue</u>	6 lb

PLOT SIZE: Treatment: Two 30in. rows x 20 yds.  
Harvest: -

MANURING OF EXPERIMENTAL CROP:

10 cwt 13:13:20 (130:130:200)

PREVIOUS CROPPING:

1970 Spring wheat  
1971 Sugar beet

CULTIVATIONS:

17 March Triple X across plots  
20 March Triple X across plots

PLANTING:

Date: 21 April  
Seed: Maris Piper

SPRAYING (1)

Date: 14 July

Weather conditions during spraying: Sunny, 21°C, ENE breeze force 3-4, low humidity.

Equipment and method adopted: Van der Weij 2.5 kg/cm<sup>2</sup>  
Birchmeier nozzles 1.6-673a, 83 gal/ac

Chemicals:

Antracol (Ex Bayer) - 70% propineb as dispersible powder  
Blitz Blight (Ex Amono) - Cufraneb (zinc, manganese, copper, iron, dithiocarbamate complex) and ethylene bisdithiocarbamic acid.

Brestan 60 (Ex Hoechst) - 60% fentin acetate + 20% maneb  
Farmanz (Ex Farm Protection) - complex ethylene bisdithiocarbamate with high content of Mn and Zn ions

Daconil 2787 (Ex Farm Protection) - 75% tetrachloroisophthalonitrite

Dithane 945 (Ex Shellstar) - 80% mancozeb (20% Mn, 2.5% Zn) as wp.

Du-ter (Ex Midox) - 20% fentin hydroxide

Zelmone (Ex Bayer) - 65% zineb

FenniteA (Ex Fisons) - 6.5% fentin acetate + maneb

Maneb (Ex BASF) - 80% maneb

Sanspor (Ex Plant Protection) - % captafol

Trimanzone (Ex Bos) 85% dithiocarbamate containing ethylene and dimethyl - bisdithiocarbamate ions, Zn, Mn and Fe ions

Trithac (Ex Murphy) - zinc and manganese bisdithiocarbamate

Polyram Blue (Ex BASF) - zineb, polyethylene thiuramdisulphide complex

State of potatoes: 2 ft tall and flowering

POTATO ASSESSMENT:

Date: no assessment made because of absence of blight

SPRAYING (2)

Date: 25 July

Weather conditions during spraying: 19°C, cloudy to sunny spells, breeze NNW force 3-4 mod-high humidity

Equipment and method adopted: Van der Weij 2.5 kg/cm<sup>2</sup>  
Birchmeier nozzles 1.6-673a, 83 gal/ac

Chemicals: See spraying sheet (1) above

State of potatoes: fully mature

POTATO ASSESSMENT

Date: -  
No assessment made because of absence of blight infection

SPRAYING (3)

Date: 9 August

Weather conditions during spraying:

18<sup>o</sup>C, cloudy few sunny spells, wind SW force 4-5 moderate-low humidity

Equipment and method adopted:

Van der Weij 2.5 kg/cm<sup>2</sup>  
Birchmeier nozzles 1.6-673a, 97 gal/ac

Chemicals

See spraying sheet (1)

State of potatoes:

Potatoes flat on ground, woody stems with some regrowth

POTATO ASSESSMENT

Date: -

No assessment made because of absence of blight