

FIELD EXPERIMENTS 1970

POTATO BLIGHT EXPERIMENT

EXPERIMENT:

Logarithmic screening of potato
blight fungicides

SITE: Megg's Land, Morley, Norfolk.

SOIL TYPE: Sandy loam.

TREATMENT AND LAYOUT: 2 Systematic replicates.

	<u>Peak dose</u>		<u>Peak dose</u>
<u>Antracol</u>	6lb	<u>Fennite A</u>	4lb
<u>Blitzblight</u>	4lb	<u>Hoe 2872 (F)</u>	2.5lb
<u>Brestan 60</u>	2.5lb	<u>Maneb</u>	4.5lb
<u>Brestan/Maneb</u>	4lb	<u>Sanspor</u>	7.5 pints
<u>Daconil 2787</u>	7.5lb	<u>Trimanzone</u>	6 lb
<u>Dithane 945</u>	4 lb	<u>Triphentin acetate</u>	2.5lb
<u>Erithane</u>	4 lb	<u>Trizaman D</u>	6 lb

PLOT SIZE:

Treatment: Two 30in rows x 20yds
Harvest: 6ft of row at recommended rate for tuber blight
assessment.

MANURING OF EXPERIMENTAL CROP:

10cwt 13:13:20 giving 130:130:200

PREVIOUS CROPPING:

1968 S. wheat
1969 Sugar beet

CULTIVATIONS:

Ploughed November
25 March triple K across plots.

PLANTING:

Date: 7 May
Seed: Bintje

SPRAYING (1)

Date: 13 July

Weather conditions during spraying: 20°C, sunny and dry, wind W force 4

Equipment and method adopted: Van der Weij 2.5 kg/cm²
Birchmeier nozzles 1.6-2F

Chemicals:

Antracol (Ex Bayer) - 70% propineb as dispersible powder

Blitzblight (Ex Amoco) - Cufraneb (Zinc, Manganese, Copper, Iron dithiocarbamate complex) and ethylene bisdithiocarbamate acid

Brestan 60 (Ex Hoechst) - 60% fentin acetate + 20% maneb

Maneb/Brestan (Ex Hoechst) - 10% fentin acetate + 62% maneb

Daconil 2787 (Ex Farm Protection) - 75% tetrachloroisophthalonitrile

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

Erithane (Ex Bayer) - 20% fentin hydroxide

Fennite A (Ex Fisons) - 6.5% fentin acetate + maneb

Hoe 2872 (Ex Hoechst) - 60% fentin acetate

Maneb (Ex BASF) - 80% maneb

Sanspor (Ex Plant Protection) - % captafol

Trimanzone (Ex Bos) - 85% dithiocarbamate containing ethylene and dimethyl bisdithiocarbamate ions, zinc, manganese and iron ions

Triphentim acetate (Ex Bos) - 20% fentin acetate

Trizaman D (Ex Murphy) -

State of potatoes: 18in. tall not meeting in rows

POTATO ASSESSMENT:

Date: No blight appeared in the crop.

SPRAYING (2)

Date: 29 July and 30 July

Weather conditions during spraying (29th): 19°C, sunny moderate humidity,
slight SW breeze

Weather conditions during spraying (30th): 22°C, slight S breeze force 2,
moderate to low humidity,
almost cloudless sky

Equipment and method adopted (29 and 30th): Van der Weij 2.2kg/cm²
Birchmeier nozzles 1.2-2F-0.6

Chemicals: See spraying sheet (1)

State of potatoes: meeting in rows

POTATO ASSESSMENT:

Date: No assessment made because of absence of blight.

SPRAYING (3)

Date: 12 August

Weather conditions during spraying: 22°C, sunny, slight S breeze force 3,
low humidity

Equipment and method adopted: Van der Weij, 2.2 kg/cm²
Birchmeier nozzles 1.2-2F-0.6

Chemicals: See spraying sheet (1)

State of potatoes: fully mature plants

POTATO ASSESSMENT:

Date: No assessments made because of absence of blight.

SPRAYING (4)

Date: 4 September

Weather conditions during spraying: 15°C, cloudy, moderate humidity,
SW wind force 5

Equipment and method adopted: Van der Weij, 22kg/cm²
Birchmeier nozzles 1.2-2F-0.6

Chemicals: See spraying sheet (1)

State of potatoes: fully mature

POTATO ASSESSMENT:

Date: No assessment made because of absence of blight.