

POTATO EXPERIMENT 1970Site: Megg's Land, Morley,
Norfolk.EXPERIMENT

Blight control systems trial.

TREATMENT AND LAYOUT: Randomised block with 6 replicates.

- A. Antracol 2lb/ac
 B. Antracol 2lb/ac substituted by Du-ter 1½lb/ac late in season
 C. Du-ter 1½lb/ac
 D. Fennite A 1½lb/ac

PLOT SIZE:

Treatment: Four 30in rows x 20yds.
 Harvest: One 30in row x 18yds.

MANURING OF EXPERIMENTAL CROP:

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

PREVIOUS CROPPING:

1968 Spring wheat
 1969 Spring wheat

CULTIVATIONS:

November: Ploughed.
 25 March: Triple K.

PLANTING:

Date: 7 May
 Seed: Bintje

SPRAYING:(1)

Date: 13 July
 Weather conditions during spraying: 20°C, dry wind W force 4

Equipment and method adopted: Van der Weij, 2.5kg/cm²
 Birchmeier nozzles 1.6-2F (very fine)
 28 gal/ac.

Chemicals:

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

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

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

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

Potato assessments: No blight infection occurred.

HARVEST:

Date: 11 November (burnt off with acid on 16 Sept.)

Method: 1 30in. row x 18 yds.

SPRAYING (2)

Date: 29 July

Weather conditions during spraying:

19°C, sunny, slight SW breeze, moderate humidity.

Equipment and method adopted: Van der Weij sprayer 2.2 kg/cm²
Birchmeier nozzles 1.6-2F 28 gal/ac

Chemicals: See sheet (1)

State of potatoes: Meeting in rows

Potato assessments: No blight infection occurred.

HARVEST:

Date: 21 November (burnt off with acid on 16 Sept.)

Method: One 30 in. row x 18 yds.

SPRAYING (3)

Date: 12 August

Weather conditions during spraying:

22°C, sunny and low humidity, slight S breeze.

Equipment and method adopted:

Van der Weij 1.7kg/cm²
Birchmeier nozzles, 1.6-2F 28 gal/ac.

Chemicals: See sheet (1)

State of potatoes: meeting in rows.

Potato assessments: No blight infection occurred.

HARVEST:

Date: 21 November (burnt off with acid on 16 Sept.)

Method: One 30m. row x 18 yds.

SPRAYING (4)

Date: 4 September

Weather conditions during spraying:

15°C, moderate humidity, SW wind force 4, cloudy.

Equipment and method adopted:

Van der Weij 17 kg/cm²
Birchmeier nozzles 1.6-2F, 28 gal/ac

Chemicals: See sheet (1)

State of potatoes: fully grown

Potato assessment: No blight infection occurred.

HARVEST:

Date: 21 November (burnt off with acid on 16 Sept.)

Method: One 30 in. row x 18 yds.

BLIGHT CONTROL SYSTEMS TRIAL

TREATMENT (lb product/so)	LARGE WARE as % TOTAL YIELD	SMALL WARE as % TOTAL YIELD	TUBERS < 1 1/2 in. as % TOTAL YIELD	TOTAL WARE as % TOTAL YIELD	YIELD 2 in. - 1 1/2 in. as % TOTAL YIELD
<u>Antracol</u> 2lb	50.5	29.9	19.5	80.5	49.5
<u>Antracol</u> early 2lb	42.1	35.2	22.7	77.3	57.9
<u>Du-ter</u> 1 1/4 lb	44.9	33.5	21.6	78.4	55.1
<u>Fennite A</u> 1 1/2 lb	46.5 (±1.67)	33.1 (±1.48)	20.3 (±1.08)	79.7 (±1.08)	53.5 (±1.67)
Standard error per plot	± 4.10 or 8.9%	± 3.63 or 11.0%	± 2.65 or 12.6%	± 2.65 or 3.4%	± 4.10 or 7.6%

BLIGHT CONTROL SYSTEMS TRIAL

MORLEY 1970

TREATMENT (lb product/ao)	YIELD TUBERS > 2in. ton/ao	YIELD TUBERS 2in. - 1 $\frac{1}{2}$ in. ton/ao	YIELD TUBERS < 1 $\frac{1}{2}$ in. ton/ao	TOTAL WARE YIELD ton/ao	TOTAL YIELD ton/ao
<u>Antracol</u> 2lb	4.33	2.49	1.61	6.82	8.43
<u>Antracol</u> early 2lb	3.58	2.94	1.87	6.52	8.39
<u>Du-ter</u> 1 $\frac{1}{2}$ lb	4.02	2.91	1.85	6.93	8.78
<u>Fennite A</u> 1 $\frac{1}{2}$ lb	4.09 (± 0.252)	2.81 (± 0.197)	1.75 (± 0.099)	6.90 (± 0.331)	8.65 (± 0.378)
Standard error per plot	± 0.617 or 15.4%	± 0.482 or 17.3%	± 0.243 or 13.7%	± 0.812 or 11.9%	± 0.925 or 10.8%