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Yields of the Field Experiments 1964

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64/R/RP201/DD/2 Potatoes - Time of Burning Off Haulm

Rothamsted Research

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64/Da/2.1

POTATOES

(RP 201)

Time of burning off haulm - Whittlocks 1964.

Design: 4 randomised blocks of 14 plots each (11 for yield).

Area of each plot: 0.0424. Area harvested: 0.0141.

Treatments:

| Fungicide sprays* and times of application | Times of burning off** |
|---|------------------------|
| None (O) | None (O) |
| Early 5 (E+) | None (O) |
| Early 4 (E) | (A) |
| Early 5 (E+) | (A) |
| Late 4 (L) | (A) |
| Early 4 (E) | (B) |
| Early 5 (E+) | (B) |
| Early 5 (E+) | (C) (See below) |
| Late 4 (L) | (B) |
| Late 5 (L+) | (B) |
| Early 5 (E+). Sprayed with insecticide(I) (0.25 lb, menazon in 50 gals) | (B) |

Each block also contained 3 plots for sampling (no yields), of these 12 plots 6 were treated as OO - and 6 as EO. The early burning off (A) took place when the mean destruction by blight on control plots was 39% and on sprayed plots (E+) was 0.5%. The late burning off (B) took place when the haulm had almost died because of the dry weather.

NOTE: It was intended to have a later burning off (C) but the season made this unnecessary and so C = B.

* 1.5 lb fungicide containing 80% mancozeb in 50 gals.

** With undiluted BOV at 15 gals.

Basal dressing: 8.5 tons dung, 8 cwt 17:11:22.

Cultivations, etc.: Ploughed: Oct 11, 1963. Dung applied: Feb 6, 1964. Rotary cultivated: Feb 12. Basal dressing applied: Apr 2. Rotary cultivated, potatoes machine planted: Apr 27. Earthed up: June 12. Menazon sprays applied: June 25 and July 24. First spraying with mancozeb (E, E+): June 25, second (E, E+, L, L+): July 13, third (E, E+, L, L+): July 24, fourth (E, E+, L, L+): Aug 7, fifth (E+, L, L+): Aug 20, final (L+): Sept 3. A plots sprayed with BOV: Sept 7. B plots sprayed with BOV: Sept 21. Lifted: Sept 30.

64/Dd/2.2

Variety: King Edward. Previous crops: Winter and spring wheat 1962, spring wheat 1963.

NOTE: Periodic samples were taken from the sample plots for weights of tubers and blight assessment in tubers.

Standard error per plot.

Total tubers: 0.870 or 6.7% (31 d.f.)

SUMMARY OF RESULTS

| | | Total tubers | % ware |
|------|---|----------------|--------|
| | | (±0.435) | |
| O | O | 12.53 | 95.2 |
| E+ | O | 13.86 | 96.2 |
| E | A | 12.31 | 94.3 |
| E+ | A | 12.40 | 95.4 |
| L | A | 12.48 | 94.1 |
| E | B | 12.84 | 95.1 |
| E+ | B | 13.14 (±0.308) | 94.4 |
| L | B | 12.92 | 94.7 |
| L+ | B | 12.64 | 93.9 |
| E+I | B | 13.53 | 95.1 |
| Mean | | 12.89 | 94.8 |