

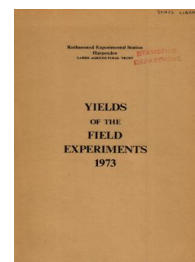
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73/R/3B/1

SUGAR BEET

SYNTHETIC PYRETHROID

Object: To study the control of aphids on sugar beet by a new, more persistent pyrethroid, NRDC143 - West Barnfield I.

Sponsors: J.H. Stevenson, I.J. Graham-Bryce, N.F. Janes.

Design: 5 randomised blocks of 4 plots.

Whole plot dimensions: 4.27 x 9.14. Area harvested: 0.00097.

Treatments: Insecticidal sprays (a.i., applied in 340 l) INSUTCDE

| | |
|--------------------------------------------------------------|-----|
| None | O |
| Demeton-s-methyl at 0.24 kg | DSM |
| Synthetic pyrethroid, NRDC143 as a single spray at 0.56 kg | PYS |
| Synthetic pyrethroid, NRDC143 as two sprays, each at 0.56 kg | PYR |

All treatments applied on 12 July; second application of NRDC143 (PYR) on 30 July.

Basal applications: Manures: (20:15:15) at 750 kg.

Seed: Klein E, sown at 7.8 kg.

Cultivations, etc.: - Ploughed: 27 Nov, 1972. Fertiliser applied, power harrowed: 21 Mar, 1973. Seed sown: 22 Mar. Singled: 30 May. Tractor hoed: 6 June, 4 July. Lifted: 19 Nov.

NOTE: Estimates of aphid (*Aphis fabae*) infection were made before and for a month after insecticides applied. An assessment of the number of plants affected by sugar beet yellowing viruses was made in the autumn.

Standard errors per plot.

Roots (washed), tonnes/hectare: 3.74 or 9.7% (12 d.f.)

Total sugar, tonnes/hectare: 0.662 or 10.4% (12 d.f.)

73/R/SB/1

TABLES OF MEANS

ROOTS (WASHED): TONNES/HECTARE

| INSC TCDE | | | | |
|-----------|------|------|------|------|
| 0 | DSM | PYS | PYR | Mean |
| 39.0 | 39.3 | 37.3 | 39.3 | 38.7 |

STANDARD ERROR OF DIFFERENCES

INSC TCDE

2.37

| SUGAR% | | | | |
|--------|------|------|------|------|
| 16.8 | 16.6 | 16.2 | 16.3 | 16.5 |

TOTAL SUGAR: TONNES/HECTARE

| | | | | |
|------|------|------|------|------|
| 6.55 | 6.52 | 6.05 | 6.41 | 6.38 |
|------|------|------|------|------|

STANDARD ERROR OF DIFFERENCES

INSC TCDE

0.419