ROTHAMSTED RESEARCH

Yields of the Field Experiments 1973

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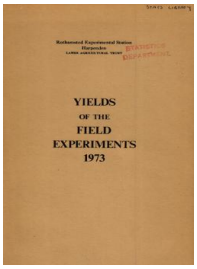

Sugar Beet

Rothamsted Research

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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.) INSCTCDE

None	0
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.)

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