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81/R/B/7 Sowing Dates and Insecticides - S. Barley

Rothamsted Research

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81/R/B/7

SPRING BARLEY

SOWING DATES AND INSECTICIDES

Object: To study the effects of three insecticides on insect pests and yields of s. barley sown on two dates - W. Barnfield I.

Sponsor: G.C. Scott.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 8.53 x 12.2.

Treatments: All combinations of:-

- | | |
|--------------|---|
| 1. SOWDATE | Date of sowing: |
| 21 FEB | 21 February, 1981 |
| 14 APR | 14 April |
| 2. INSECTCDE | Insecticides & frequencies of application: |
| NONE | None |
| DEMETH 1 | Demeton-s-methyl at 0.24 kg applied once on 9 July |
| DEMETH R | Demeton-s-methyl at 0.24 kg applied on 1 June, 12 June and 9 July |
| FENITROT | Fenitrothion at 0.70 kg applied 17 June, 9 July |
| OMETH 1 | Omethoate at 0.64 kg applied once on 9 July |
| OMETH R | Omethoate at 0.64 kg applied on 1 June, 12 June and 9 July |

Basal applications: Manures: (20:10:10) at 450 kg, combine drilled.
Weedkillers: Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 2.5 l) in 250 l applied with the fungicide. Fungicide: Tridemorph at 0.53 kg.

Seed: Triumph, sown at 160 kg.

Cultivations, etc.: - Ploughed: 6 Jan, 1981. Spring-tine cultivated twice: 19 & 20 Feb. Weedkillers and fungicide applied to early-sown plots: 12 May. Weedkillers and fungicide applied to late-sown plots: 30 May. Early-sown plots combine harvested: 18 Aug. Late-sown plots combine harvested: 3 Sept. Previous crops: W. wheat 1979, s. barley 1980.

NOTE: Aphids, thrips, and stem borers were counted ten times between May and July. Components of yield were measured.

81/R/B/7

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

INSCTCDE SOWDATE	NONE	DEMET 1	DEMET R	FENITROT	OMETH 1	OMETH R	MEAN
21 FEB	6.39	6.59	6.30	6.97	6.58	6.14	6.50
14 APR	5.29	5.54	6.17	5.90	5.72	6.20	5.80
MEAN	5.84	6.07	6.24	6.43	6.15	6.17	6.15

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	SOWDATE	INSCTCDE	SOWDATE INSCTCDE
SED	0.167	0.289	0.408

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	33	0.578	9.4

GRAIN MEAN DM% 85.7

PLOT AREA HARVESTED 0.00260