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83/R/B/5 Sowing Dates and Insects - S. Barley

Rothamsted Research

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83/R/B/5

SPRING BARLEY

SOWING DATES AND INSECTS

Object: To study the effects of omethoate on insect pests and on yields of s. barley sown on two dates - Sawyers I.

Sponsor: G.C. Scott.

Design: 4 randomised blocks of 9 plots.

Whole plot dimensions: 9.0 x 10.0.

Treatments:

SDTE INS	Sowing dates and insecticides:
SE NONE	Sown 8 Mar, 1983, no insecticides
SE OME R	Sown 8 Mar, omethoate applied on 27 May, 13 June, 28 June, 12 July
SL NONE	Sown 14 Apr, no insecticides
SL OME 1	Sown 14 Apr, omethoate applied on 27 May
SL OME 2	Sown 14 Apr, omethoate applied on 13 June
SL OME 3	Sown 14 Apr, omethoate applied on 28 June
SL OME 4	Sown 14 Apr, omethoate applied on 12 July
SL OME R	Sown 14 Apr, omethoate applied 27 May, 13 June, 28 June, 12 July

NOTE: Omethoate was applied at 0.64 kg in 450 l.

Basal applications: Manures: 'Nitro-Chalk' at 500 kg followed by 250 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 250 l. Fungicide: Tridemorph at 0.52 kg in 250 l.

Seed: Triumph, dressed triadimenol plus fuberidazole, sown at 160 kg.

Cultivations, etc.: Ploughed: 10 Nov, 1982. Spring-tine cultivated: 7 Mar, 1983. Spring-tine cultivated, early-sown plots rotary harrowed and sown: 8 Mar. Late-sown plots rotary harrowed and sown: 14 Apr. First N applied: 15 Apr. Weedkillers applied: 24 May. Second N applied: 26 May. Fungicide applied: 21 June. Combine harvested: 9 Aug. Previous crops: Potatoes 1981, s. barley 1982.

NOTES: (1) Aphids, thrips and stem borers were counted from the end of April to the middle of July.
(2) Components of yield were measured.

83/R/B/5

GRAIN TONNES/HECTARE

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

SDTE INS	
SE NONE	6.27
SE OME R	6.83
SL NONE	5.24
SL OME 1	4.89
SL OME 2	5.44
SL OME 3	5.85
SL OME 4	5.59
SL OME R	5.43
MEAN	5.64

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

TABLE	SDTE INS
SED	0.424 MIN REP
	0.367 MAX-MIN

	SDTE INS
MAX-MIN	SL NONE V ANY OF REMAINDER
MIN REP	ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	25	0.600	10.6
GRAIN MEAN DM%	87.1		
PLOT AREA HARVESTED	0.00204		