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84/R/B/12 Sowing Dates and Insects - S. Barley

Rothamsted Research

Rothamsted Research (1985) *84/R/B/12 Sowing Dates and Insects - S. Barley* ; Yields Of The Field Experiments 1984, pp 273 - 274 - DOI: <https://doi.org/10.23637/ERADOC-1-32>

84/R/B/12

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 - Gt. Harpenden 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 9 Mar, 1984, no insecticides
SE OME R	Sown 9 Mar, omethoate applied on 25 May, 13 June, 26 June, 11 July
SL NONE	Sown 13 Apr, no insecticides (duplicated)
SL OME 1	Sown 13 Apr, omethoate applied on 25 May
SL OME 2	Sown 13 Apr, omethoate applied on 13 June
SL OME 3	Sown 13 Apr, omethoate applied on 26 June
SL OME 4	Sown 13 Apr, omethoate applied on 11 July
SL OME R	Sown 13 Apr, omethoate applied 25 May, 13 June, 26 June, 11 July

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

Basal applications: Manures: 'Nitro-Chalk' at 500 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 200 l. Fungicide: Tridemorph at 0.52 kg in 500 l.

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

Cultivations, etc.: - Ploughed: 5 Dec, 1983. N applied: 8 Mar, 1984. Early-sown plots rotary harrowed, seed sown: 9 Mar. Late-sown plots rotary harrowed, seed sown: 13 Apr. Weedkillers applied: 15 May. Fungicide applied: 11 June. Combine harvested: 18 Aug. Previous crops: Potatoes 1982, w. wheat 1983.

NOTE: Aphids, thrips and stem borers were counted between late April and mid-July

84/R/B/12

GRAIN TONNES/HECTARE

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

SDTE INS	
SE NONE	8.32
SE OME R	8.86
SL NONE	7.85
SL OME 1	8.04
SL OME 2	8.09
SL OME 3	7.95
SL OME 4	7.76
SL OME R	8.14

MEAN 8.09

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

TABLE	SDTE INS	

SED	0.185	MIN REP
	0.160	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	0.261	3.2

GRAIN MEAN DM% 86.0

PLOT AREA HARVESTED 0.00204