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Yields of the Field Experiments 1982

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82/R/B/7 Control of Insects - Spring Barley

Rothamsted Research

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82/R/B/7

SPRING BARLEY

CONTROL OF INSECTS

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

Sponsor: G.C. Scott.

Design: 4 randomised blocks of 11 plots.

Whole plot dimensions: 9.00 x 12.0.

Treatments:

SDTE INS	Sowing dates and insecticides:
SE NONE	Sown 15 Mar 1982, no insecticides
SE FEN R	Sown 15 Mar 1982, fenitrothion applied on 26 May, 15 June, 30 June
SE OME R	Sown 15 Mar 1982, omethoate applied on 26 May, 15 June, 30 June
SL NONE	Sown 16 Apr, no insecticides (duplicated)
SL FEN E	Sown 16 Apr, fenitrothion applied on 15 June
SL FEN L	Sown 16 Apr, fenitrothion applied on 30 June
SL FEN R	Sown 16 Apr, fenitrothion applied on 26 May, 15 June and 30 June
SL OME E	Sown 16 Apr, omethoate applied on 26 May
SL OME L	Sown 16 Apr, omethoate applied on 30 June
SL OME R	sown 16 Apr, omethoate applied on 26 May, 15 June, 30 June

NOTE: Fenitrothion was applied at 0.70 kg in 450 l. Omethoate was applied at 0.64 kg in 450 l.

Basal applications: Manures: Chalk at 5.0 t. FYM at 25 t. (20:10:10) at 630 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l applied with the fungicide. Fungicide: Tridemorph at 0.53 kg.

Seed: Triumph, dressed with ethirimol, sown at 160 kg.

Cultivations, etc.:- Chalk applied: 22 Oct, 1981. FYM applied: 4 Dec. Ploughed: 9 Dec. Early-sown plots rotary harrowed and sown: 15 Mar, 1982. NPK applied: 30 Mar. Late-sown plots rotary harrowed and sown: 16 Apr. Weedkillers and fungicide applied to early-sown plots: 15 May. Weedkillers and fungicide applied to late-sown plots: 21 May. All plots combine harvested: 19 Aug. Previous crops: Potatoes 1980, w. wheat 1981.

NOTES: (1) Aphids, thrips and stem borers were counted from the end of April to the middle of July. Components of yield were measured. Lodging was scored and straw counts were made.
(2) The yield for one plot with treatment combination SL OME L was lost. An estimated value was used in the analysis.

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82/R/B/7

GRAIN TONNES/HECTARE

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

SDTE INS	
SE NONE	7.04
SE FEN R	7.05
SE OME R	7.74
SL NONE	5.47
SL FEN E	5.82
SL FEN L	5.91
SL FEN R	6.19
SL OME E	5.79
SL OME L	5.68
SL OME R	6.22
MEAN	6.22

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

TABLE	SDTE INS	
SED	0.230	MIN REP
	0.199	MAX-MIN

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

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

STRATUM	DF	SE	CV%
BLOCK.WP	30	0.325	5.2

GRAIN MEAN DM% 83.9

PLOT AREA HARVESTED 0.00245

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