ROTHAMSTED RESEARCH

Yields of the Field Experiments 1984

Full Table of Content

84/W/B/2 Sowing Dates and Insects - S. Barley

Rothamsted Research

Rothamsted Research (1985) *84/W/B/2 Sowing Dates and Insects - S. Barley ;* Yields Of The Field Experiments 1984, pp 262 - 263 **- DOI: https://doi.org/10.23637/ERADOC-1-32**

84/W/B/2

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 - Woburn White Horse.

Sponsor: G.C. Scott.

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 8.0 x 12.0.

Treatments: All combinations of:-

1. SOW DATE	Dates of sowing:
9 MAR	9 Mar, 1984
16 APR	16 Apr
2. INSEARLY	Insecticide applied early:
NONE	None
OMETHO E	Omethoate on 31 May
3. INS LATE	Insecticide applied late:
NONE	None
OMETHO L	Omethoate on 29 June

NOTE: Omethoate was applied at 0.63 l in 250 l on both occasions.

Basal applications: Manures: Magnesian limestone at 7.5 t, FYM at 50 t, N at 110 kg as 'Nitro-Chalk'. Weedkiller: Mecoprop at 2.1 kg in 250 l. Fungicide: Tridemorph at 0.52 kg in 250 l.

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

Cultivations, etc.:- Magnesian limestone applied: 30 Sept, 1983. FYM applied: 21-23 Nov. Ploughed: 25 Nov. N applied: 8 Mar, 1984. Spring-tine cultivated all plots, spring-tine cultivated with crumbler attached, seed sown for SOW DATE 9 MAR: 9 Mar. Spring-tine cultivated with crumbler attached, seed sown for SOW DATE 16 APR: 16 Apr. Weedkiller applied: 15 May. Fungicide applied: 31 May. Combine harvested: 15 Aug. Previous crops: Potatoes 1982, w. wheat 1983.

NOTES: (1) Aphids, thrips and stem borers were counted on several occasions during the growing season.
(2) Barley yellow dwarf virus infection was assessed.

https://doi.org/10.23637/ERADOC-1-32

84/W/B/2

GRAIN TONNES/HECTARE

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

INSEARLY SOWDATE	NONE	OMETHO E	MEAN
9 MAR	7.13	6.81	6.97
16 APR	5.55	5.99	5.77
MEAN	6.34	6.40	6.37

INS LATE SOWDATE	NONE	OMETHO L	MEAN
9 MAR	6.90	7.04	6.97
16 APR	5.58	5.97	5.77
MEAN	6.24	6.51	6.37

INS LATE INSEARLY	NONE	OMETHO L	MEAN
NONE	6.20	6.49	6.34
OMETHO E	6.28	6.52	6.40
MEAN	6.24	6.51	6.37

INSEARLY	NONE		OMETHO E	
INS LATE	NONE	OMETHO L	NONE	OMETHO L
SOWDATE				
9 MAR	7.19	7.07	6.61	7.01
16 APR	5.20	5.90	5.95	6.04

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

TABLE	SOWDATE	INSEARLY	INS LATE	SOWDATE INSEARLY
SED	0.265	0.265	0.265	0.375

TABLE	SOWDATE INS LATE	INSEARLY INS LATE	SOWDATE INSEARLY INS LATE
SED	0.375	0.375	0.531

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

STRATUM	DF	SE	CV%
BLOCK.WP	21	0.751	11.8

GRAIN MEAN DM% 87.1

PLOT AREA HARVESTED 0.00275

https://doi.org/10.23637/ERADOC-1-32