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

Rothamsted Research

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83/W/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 - Gt. Hill Bottom I.

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, 1983 |
| 15 APR | 15 Apr |
| 2. INSEARLY | Insecticide applied early: |
| NONE | None |
| OMETHOAT | Omethoate on 7 June |
| 3. INS LATE | Insecticide applied late: |
| NONE | None |
| OMETHOAT | Omethoate on 5 July |

NOTE: Omethoate was applied at 0.64 l in 280 l on both occasions.

Basal applications: Manures: N at 140 kg as 'Nitro-Chalk'. Weedkillers: Dicamba with mecoprop and MCPA (as 'Herrisol' at 5.0 l) 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.: Ploughed: 3 Nov, 1982. Spring-tine cultivated: 7 Mar, 1983. Spring-tine cultivated with crumbler attached: 8 Mar. Spring-tine cultivated with crumbler attached for SOW DATE 15 APR: 15 Apr. N applied: 5 May. Weedkillers applied: 26 May. Fungicide applied: 16 June. Combine harvested SOW DATE 9 MAR: 9 Aug. Combine harvested SOW DATE 15 APR: 18 Aug. Previous crops: Potatoes 1981, w. wheat: 1982.

- NOTES: (1) Aphids, thrips and stem borers were counted on several occasions between April and June.
(2) Barley yellow dwarf virus infection was assessed.

83/W/B/5

GRAIN TONNES/HECTARE

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

INSEARLY SOW DATE	NONE	OMETHOAT	MEAN
9 MAR	5.58	5.34	5.46
15 APR	4.34	4.90	4.62
MEAN	4.96	5.12	5.04

INS LATE SOW DATE	NONE	OMETHOAT	MEAN
9 MAR	5.83	5.09	5.46
15 APR	5.05	4.19	4.62
MEAN	5.44	4.64	5.04

INS LATE INSEARLY	NONE	OMETHOAT	MEAN
NONE	5.51	4.41	4.96
OMETHOAT	5.37	4.88	5.12
MEAN	5.44	4.64	5.04

INSEARLY INS LATE SOW DATE	NONE NONE	OMETHOAT OMETHOAT	OMETHOAT NONE	OMETHOAT OMETHOAT
9 MAR	6.18	4.98	5.47	5.21
15 APR	4.84	3.84	5.27	4.54

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

TABLE	SOW DATE	INSEARLY	INS LATE	SOW DATE INSEARLY
SED	0.602	0.602	0.602	0.852

TABLE	SOW DATE INS LATE	INSEARLY INS LATE	SOW DATE INSEARLY INS LATE
SED	0.852	0.852	1.205

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

STRATUM	DF	SE	CV%
BLOCK.WP	21	1.703	33.8

GRAIN MEAN DM% 85.6

PLOT AREA HARVESTED 0.00275