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78/R/WS/2 Integrated Pest Control - S. Wheat

Rothamsted Research

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78/R/WS/2

SPRING WHEAT

INTEGRATED PEST CONTROL

Object: To study the effects of chemical and biological pest control treatments on the incidence of pests and on yield of spring wheat - Stackyard.

Sponsors: G. Dean, R. Bardner, C.A. Edwards, A. Dewar, J.W. Stephenson, N. Wilding, K.E. Fletcher, J.R. Lofty.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 19.2 x 19.2.

Treatments:

| | |
|----------|--|
| TREATMNT | Chemical and biological treatments: |
| NONE | None (duplicated) |
| BIOLOGIC | Metarrhizium fungus applied as 4×10^{13} spores per hectare on rice grains applied at 800 kg on 17 May |
| MULTCHEM | Multiple chemical treatments: Chlorpyrifos at 2 kg on 17 March. Metaldehyde at 31.4 kg on 30 March. Omethoate at 0.2 kg on 2 June. Pirimicarb at 0.14 kg on 4 July |

NOTE: It was intended to add to BIOLOGIC the release of aphids infected with Entomophthora. Natural aphids were few and this treatment was not applied. A planned additional treatment of aphicide only was also not applied for the same reason.

Basal applications: Manures: (20:14:14) at 440 kg, combine drilled. Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 4.9 l) in 220 l.

Seed: Sicco, seed not dressed, sown at 190 kg.

Cultivations, etc.: - Ploughed: 22 Nov, 1977. Spring-tine cultivated twice: 13 Mar, 1978. Seed sown: 15 Mar. Weedkiller applied: 18 May. Combine harvested: 15 Sept. Previous crops: Beans 1976, wheat 1977.

78/R/WS/2

GRAIN TONNES/HECTARE

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

| | | | | |
|----------|------|----------|-----------|------|
| TREATMNT | NONE | BIOLOGIC | MULTICHEM | MEAN |
| | 5.43 | 5.44 | 5.85 | 5.54 |

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

| | |
|-------|---------------|
| TABLE | TREATMNT |
| REP | UNEQUAL |
| SED | 0.146 MIN REP |
| | 0.127 MAX-MIN |

TREATMENT
 MAX-MIN NONE V ANY OF REMAINDER
 MIN REP ANY OF REMAINDER

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

| | | | |
|---------------------|---------|-------|-----|
| STRATUM | DF | SE | CV% |
| BLOCK.WP | 7 | 0.179 | 3.2 |
| GRAIN MEAN DM% | 80.8 | | |
| PLOT AREA HARVESTED | 0.00410 | | |