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81/R/WW/8 Varieties, Weedkillers and Pests - W. Wheat

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81/R/WW/8

WINTER WHEAT

VARIETIES, WEEDKILLERS AND PESTS

Object: To study the effects of weeds on pests and their predators and on the yield of two varieties of w. wheat - Stackyard.

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

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 19.2 x 19.2.

Treatments: All combinations of:-

1. VARIETY Varieties:

| | |
|----------|----------------|
| KADOR | Kador |
| HUNTSMAN | Maris Huntsman |

2. WEEDKLLR Weedkillers:

| | |
|----------|--|
| NONE | None |
| ISOP+MEC | Isoproturon at 2.1 kg plus mecoprop at 3.0 l |

NOTE: The weedkiller treatment was applied in 250 l on 22 Apr, 1981.

Basal applications: Manures: (10:23:23) at 250 kg, combine drilled. 'Nitro-Chalk' at 560 kg. Weedkiller: Glyphosate at 1.5 l in 250 l.

Seed: Varieties sown at 200 kg.

Cultivations, etc.: - Glyphosate applied: 27 Sept, 1980. Ploughed: 14 Oct. Spring-tine cultivated: 30 Oct. Seed sown: 31 Oct. N applied: 14 Apr, 1981. Combine harvested: 29 Aug. Previous crops: W. oats 1979, w. wheat 1980.

NOTE: Ground surface insects were counted weekly between April and August and aerial insects weekly between May and July. Soil insects were counted in June. Aphid numbers, infection with Entomophthorales and aphid parasite numbers were assessed in June and July. Weed cover was assessed in April and June.

81/R/WW/8

GRAIN TONNES/HECTARE

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

| WEEDKLLR VARIETY | NONE | ISOP+MEC | MEAN |
|---------------------|------|----------|------|
| KADOR | 5.99 | 7.10 | 6.54 |
| HUNTSMAN | 7.22 | 7.20 | 7.21 |
| MEAN | 6.60 | 7.15 | 6.88 |

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

| TABLE | VARIETY | WEEDKLLR | VARIETY WEEDKLLR |
|-------|---------|----------|---------------------|
| ----- | ----- | ----- | ----- |
| SED | 0.183 | 0.183 | 0.258 |

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

| STRATUM | DF | SE | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 6 | 0.316 | 4.6 |

GRAIN MEAN DM% 82.0

PLOT AREA HARVESTED 0.00410