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80/R/WW/6 Winter Wheat Weedkillers and Pests

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80/R/WW/6

WINTER WHEAT

WEEDKILLERS AND PESTS

Object: To study the effects of times of applying weedkillers on the incidence of pests and beneficial insects and on the yield of w. wheat - Stackyard.

Sponsors: W. Powell, R. Bardner, C.A. Edwards, G.J.W. Dean, A. 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:

WEEDKLLR	Times of applying weedkillers:
NONE	None
AUTUMN	Chlortoluron at 5.6 l in 880 l on 2 Nov, 1979
SPRING	Isoproturon at 2.1 kg plus mecoprop at 2.5 l in 220 l on 29 Feb, 1980
AUT+SPNG	Chlortoluron plus isoproturon plus mecoprop at above rates and times

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

Seed: Flanders, not dressed insecticide, sown at 200 kg.

Cultivations, etc.: - Ploughed: 13 Sept, 1979. Rotary harrowed: 4 Oct. Seed sown: 6 Oct. N applied: 8 Apr, 1980. Combine harvested: 20 Aug. Previous crops: S. oats 1978, w. wheat 1979.

NOTE: Ground surface insects were counted weekly between April and August and aerial insects between May and July. Soil insects were counted in June. Aphid numbers and infection with *Entomophthora* were assessed in June and July. Weed species were identified and counted and percentage ground cover was assessed.

80/R/WW/6

GRAIN TONNES/HECTARE

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

WEEDKLLR	NONE	AUTUMN	SPRING	AUT+SPNG	MEAN
	7.42	8.07	8.23	8.25	8.00

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

TABLE	WEEDKLLR
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SED	0.219

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.268	3.3

GRAIN MEAN DM% 84.2

PLOT AREA HARVESTED 0.00410