

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1981

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1982) *81/R/WW/8 Varieties, Weedkillers and Pests - W. Wheat* ; Yields Of The Field Experiments 1981, pp 259 - 260 - DOI: <https://doi.org/10.23637/ERADOC-1-35>

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. WEEDKILLER 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