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78/R/WW/7 Sowing Dates and Insecticides - W. Wheat

Rothamsted Research

Rothamsted Research (1979) *78/R/WW/7 Sowing Dates and Insecticides - W. Wheat* ; Yields Of The Field Experiments 1978, pp 359 - 360 - DOI: <https://doi.org/10.23637/ERADOC-1-30>

78/R/WW/7

WINTER WHEAT

SOWING DATES AND INSECTICIDES

Object: To study the effects of dates of sowing and times of applying insecticides on the incidence of cereal aphids, barley yellow dwarf virus (BYDV) and on the yield of winter wheat - Claycroft.

Sponsor: R.T. Plumb.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 18.3.

Treatments: All combinations of:-

1. SOW DATE Dates of sowing:

6 OCT	6 October, 1977
4 NOV	4 November
25 NOV	25 November

2. INSECTICIDE(1) Phorate granules to seedbed:

NONE	None
PHORATE	Phorate at 5 kg

3. INSECTICIDE(2) Menazon spray:

NONE	None
MENAZON	Menazon (0.7 l 'Saphi-Col' in 220 l on 7 July, 1978)

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled, 'Nitra-Shell 34' at 350 kg. Weedkillers: Dicamba plus mecoprop and MCPA ('Banlene Plus' at 4.9 l in 220 l).

Seed: Flanders, sown at 190 kg.

Cultivations, etc.: - Ploughed: 4 Oct, 1977. Rotary harrowed all plots, treatments applied to SOW DATE 6 OCT and these plots only rotary harrowed 5 Oct and sown: 6 Oct. Treatments applied to SOW DATE 4 NOV and these plots only power harrowed and sown: 4 Nov. Treatments applied to SOW DATE 25 NOV and these plots only rotary harrowed and sown: 25 Nov. N applied: 8 May, 1978. Weedkillers applied: 9 May. Combine harvested: 13 Sept. Previous crops: Fallow 1976, beans 1977.

NOTE: Plant emergence, aphid and virus counts were made during the season, tiller counts before harvest and grains per ear at harvest.

78/R/WW/7

GRAIN TONNES/HECTARE

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

INSCTCDE(1) SOW DATE	NONE	PHORATE	MEAN
6 OCT	6.94	7.65	7.29
4 NOV	7.66	7.91	7.79
25 NOV	6.53	6.55	6.54
MEAN	7.04	7.37	7.21

INSCTCDE(2) SOW DATE	NONE	MENAZON	MEAN
6 OCT	7.41	7.17	7.29
4 NOV	7.54	8.03	7.79
25 NOV	6.60	6.49	6.54
MEAN	7.19	7.23	7.21

INSCTCDE(2) INSCTCDE(1)	NONE	MENAZON	MEAN
NONE	6.99	7.10	7.04
PHORATE	7.39	7.36	7.37
MEAN	7.19	7.23	7.21

INSCTCDE(1) INSCTCDE(2) SOW DATE	NONE	MENAZON	PHORATE NONE	MENAZON
6 OCT	7.04	6.83	7.79	7.51
4 NOV	7.29	8.03	7.80	8.03
25 NOV	6.63	6.44	6.57	6.54

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

TABLE	SOW DATE	INSCTCDE(1)	INSCTCDE(2)	SOW DATE INSCTCDE(1)
SED	0.221	0.180	0.180	0.312

TABLE	SOW DATE INSCTCDE(2)	INSCTCDE(1) INSCTCDE(2)	SOW DATE INSCTCDE(1) INSCTCDE(2)
SED	0.312	0.255	0.441

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

STRATUM	DF	SE	CV%
BLOCK.WP	22	0.540	7.5

GRAIN MEAN DM% 84.5

PLOT AREA HARVESTED 0.00260