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72/R/WW/4 Winter Wheat Ewsm Spread by Infected Vectors

Rothamsted Research

Rothamsted Research (1973) *72/R/WW/4 Winter Wheat Ewsm Spread by Infected Vectors ; Yields Of The Field Experiments 1972*, pp 280 - 281 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/WW/4

WINTER WHEAT

EWSM SPREAD BY INFECTED VECTORS

Object: To study the effects of introducing vectors (*Javesella pellucida*), carrying european wheat striate mosaic, at different times, on spread of disease and yield of wheat - Long Hoos IV.

Sponsor: R.T. Plumb.

Design: 2 randomised blocks of 5 plots.

Whole plot dimensions: 6.40 x 12.2. Area harvested: 0.00347.

Treatments: Caging of plant-hopper vectors (*Javesella pellucida*) carrying EWSM on central area (0.61 x 1.22) of plot for 2 weeks (DATE):-

No vectors

(O)

Vectors caged on 23 December, 1971

(D)

On 20 January, 1972

(J)

On 5 April

(A)

On 8 May

(M)

The central area (0.61 x 1.22) was cut out before plot yields were taken.

Basal applications: 250 kg (10:24:24) combine drilled. 105 kg N as 'Nitro-Chalk'. Weedkiller: Dicamba, mecoprop and MCPA ('Tetralex Plus' at 7 l in 220 l).

Seed: Cappelle sown at 200 kg.

Cultivations, etc.: Ploughed: 6 Oct, 1971. Seed combine drilled: 23 Oct. N applied: 24 Apr, 1972. Weedkiller applied: 26 Apr. Combine harvested: 31 Aug. Previous crops: Potatoes 1970, barley 1971.

NOTE: Scores for EWSM were made and plants were sampled throughout the season.

Standard error per plot.

Grain, tonnes/hectare: 0.149 or 2.0% (4 d.f.)

72/R/WW/4

TABLE OF MEANS

GRAIN: TONNES/HECTARE

DATE					
O	D	J	A	M	Mean
7.36	7.35	7.38	7.11	7.31	7.30

STANDARD ERROR OF DIFFERENCES

DATE 0.149

Mean D.M. %: 85.0