

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 1980

[Full Table of Content](#)



80/W/WW/4 Winter Wheat Nematicides at Sowing

Rothamsted Research

Rothamsted Research (1981) *80/W/WW/4 Winter Wheat Nematicides at Sowing* ; Yields Of The Field Experiments 1980, pp 231 - 233 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

80/W/WW/4

WINTER WHEAT

NEMATICIDES AT SOWING

Object: To study the effects of applying fumigants and non-fumigant nematicides on the control of parasitic nematodes and on the yield of w. wheat - Far Field II.

Sponsor: A.G. Whitehead.

Design: 3 randomised blocks of 26 plots.

Whole plot dimensions: 2.28 x 7.62.

Treatments:

TREATMNT

OX1 CD 7 Oxamyl at 0.5 kg combine drilled, rows 7 inches (18 cm) apart
OX2 CD 7 Oxamyl at 1.0 kg combine drilled, rows 7 inches (18 cm) apart
OX4 CD 7 Oxamyl at 2.0 kg combine drilled, rows 7 inches (18 cm) apart
OX6 CD 7 Oxamyl at 3.0 kg combine drilled, rows 7 inches (18 cm) apart
AL1 CD 7 Aldicarb at 0.5 kg combine drilled, rows 7 inches (18 cm) apart
AL2 CD 7 Aldicarb at 1.0 kg combine drilled, rows 7 inches (18 cm) apart
AL4 CD 7 Aldicarb at 2.0 kg combine drilled, rows 7 inches (18 cm) apart
AL6 CD 7 Aldicarb at 3.0 kg combine drilled, rows 7 inches (18 cm) apart
AL2 BC 7 Aldicarb at 1.0 kg broadcast and raked in, rows 7 inches (18 cm) apart
AL4 BC 7 Aldicarb at 2.0 kg broadcast and raked in, rows 7 inches (18 cm) apart
AL8 BC 7 Aldicarb at 4.0 kg broadcast and raked in, rows 7 inches (18 cm) apart
AL1 SB 7 Aldicarb at 0.5 kg surface applied in 75 mm bands over the rows, rows 7 inches (18 cm) apart
AL2 SB 7 Aldicarb at 1.0 kg surface applied in 75 mm bands over the rows, rows 7 inches (18 cm) apart
AL4 SB 7 Aldicarb at 2.0 kg surface applied in 75 mm bands over the rows, rows 7 inches (18 cm) apart
M1 I 7 Metham sodium at 92 l injected in the row, rows 7 inches (18 cm) apart
M2 I 7 Metham sodium at 184 l injected in the row, rows 7 inches (18 cm) apart
T1 I 7 'Telone II' at 92 l injected in the row, rows 7 inches (18 cm) apart
T2 I 7 'Telone II' at 184 l injected in the row, rows 7 inches (18 cm) apart
M1 I 5/9 Metham sodium at 92 l injected between rows of a pair. Rows of a pair were 5 inches (13 cm) apart and pairs were separated by 9 inches (23 cm)
M2 I 5/9 Metham sodium at 184 l injected between rows of a pair as above
T1 I 5/9 'Telone II' at 92 l injected between rows of a pair as above
T2 I 5/9 'Telone II' at 184 l injected between rows of a pair as above
- I 7 No chemicals, injector tines only, - rows 7 inches (18 cm) apart
- - 7 No chemicals, no tines, rows 7 inches (18 cm) apart
- I 5/9 No chemicals, injector tines only between rows of a pair as above
- - 5/9 No chemicals, no tines, rows of a pair as above.

80/W/WW/4

Basal applications: Manures: (10:23:23) at 250 kg, combine drilled.
'Nitro-Chalk' at 340 kg. Weedkillers: Mecoprop with bromoxynil and
ioxynil (as 'Brittox' at 3.5 l in 220 l). Fungicide: Triadimefon at
0.11 kg in 220 l.

Seed: Flanders, sown at 200 kg.

Cultivations, etc.: - Subsoiled, tines 60 cm deep, 140 cm apart: 13 Sept,
1979. Deep-tine cultivated twice: 19 Sept. Rotary cultivated: 5 Oct.
Treatments applied: 17-18 Oct. Seed sown: 19 Oct. Weedkillers applied:
26 Mar, 1980. Fungicide applied: 3 June. Combine harvested: 26 Aug.
Previous crops: S. barley 1978, s. beans 1979.

NOTE: Soil samples were taken before treatments were applied and after
harvest for counts of migratory nematodes.

80/W/WW/4

GRAIN TONNES/HECTARE

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

TREATMNT	
OX1 CD 7	5.52
OX2 CD 7	5.75
OX4 CD 7	5.72
OX6 CD 7	5.77
AL1 CD 7	5.49
AL2 CD 7	5.78
AL4 CD 7	5.95
AL6 CD 7	5.90
AL2 BC 7	5.90
AL4 BC 7	5.93
AL8 BC 7	5.95
AL1 SB 7	5.57
AL2 SB 7	5.59
AL4 SB 7	5.39
M1 I 7	5.37
M2 I 7	5.63
T1 I 7	5.88
T2 I 7	5.86
M1 I 5/9	5.14
M2 I 5/9	5.33
T1 I 5/9	5.67
T2 I 5/9	5.88
- I 7	5.22
- - 7	5.56
- I 5/9	5.13
- - 5/9	5.29
MEAN	5.62

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

TABLE	TREATMNT
-----	-----
SED	0.228

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

STRATUM	DF	SE	CV%
BLOCK.WP	50	0.279	5.0
GRAIN MEAN DM%	85.1		
PLOT AREA HARVESTED	0.00116		