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

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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		