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82/R/WW/5 Nuarimol and Take-all - Winter Wheat

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82/R/WW/5

WINTER WHEAT

NUARIMOL AND TAKE-ALL

Object: To study the effects of nuarimol on the incidence of take-all and on the yield of w. wheat - New Zealand.

Sponsor: G.L. Bateman.

Design: 5 randomised blocks of 5 plots.

Whole plot dimensions: 2.13 x 12.2.

Treatments:

FUN CULT	Fungicide and methods of incorporation:
NONE	None
NU EC PL	Nuarimol e.c. applied to stubble 1981 and ploughed in
NU EC LH	Nuarimol e.c. lightly rotary harrowed into seedbed
NU EC DC	Nuarimol e.c. deeply rotary cultivated into seedbed
NU WP DC	Nuarimol w.p. deeply rotary cultivated into seedbed

NOTE: Nuarimol was applied at 2.2 kg.

Basal applications: Manures: (0:14:28) at 320 kg. 'Nitro-Chalk' at 560 kg. Weedkillers: Chlortoluron at 5.6 l in 250 l. Glyphosate at 1.4 kg in 250 l. Fungicides: Carbendazim, maneb and tridemorph (as 'Cosmic' at 4.0 kg) with captafol at 1.2 kg applied with the insecticide in 250 l. Insecticide: Pirimicarb at 0.14 kg. Growth regulator: Chloromequat at 1.7 kg in 250 l.

Seed: Avalon, untreated, sown at 200 kg.

Cultivations, etc.: - Ploughed: 1 Oct, 1981. PK applied: 26 Oct. Rotary harrowed, seed sown: 28 Oct. Chlortoluron applied: 29 Oct. N applied: 22 Apr, 1982. Growth regulator applied: 27 Apr. Fungicides and insecticide applied: 15 June. Glyphosate applied: 10 Aug. Combine harvested: 21 Aug. Previous crops: W. wheat 1980 and 1981.

NOTE: Take-all and foot rots were assessed in early May, early June and mid-July.

82/R/WW/5

GRAIN TONNES/HECTARE

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

FUN CULT	NONE	NU EC PL	NU EC LH	NU EC DC	NU WP DC	MEAN
	9.23	9.12	9.11	9.15	9.38	9.20

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

TABLE	FUN CULT
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SED	0.207

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

STRATUM	DF	SE	CV%
BLOCK.WP	16	0.328	3.6

GRAIN MEAN DM% 84.6

PLOT AREA HARVESTED 0.00176