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85/R/WW/3 Factors Affecting Take-all - W. Wheat

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85/R/WW/3

WINTER WHEAT

FACTORS AFFECTING TAKE-ALL

Object: To study the effects of a seed treatment on the incidence of take-all and on the yield of wheat sown at different times - Delafield.

Sponsor: G.L. Bateman.

Design: 6 randomised blocks of 6 plots, with PREVCROP on blocks.

Whole plot dimensions: 3.0 x 12.0.

Treatments: All combinations of:-

Blocks

- | | |
|-------------|---|
| 1. PREVCROP | Previous cropping: |
| BARLEY | Beans 1982, w. wheat 1983, s. barley 1984 |
| OATS | Beans 1982, w. wheat 1983, s. oats 1984 |

Whole plots

- | | |
|------------|--|
| 2. SEED DR | Seed dressing: |
| NONE | None |
| TRIADIME | Triadimenol at 0.5 g per kg of seed plus fuberidazole at 0.06 g per kg of seed |
-
- | | |
|------------|--------------------|
| 3. SOWDATE | Dates of sowing: |
| 11 SEPT | 11 September, 1984 |
| 26 SEPT | 26 September |
| 15 OCT | 15 October |

Basal applications: Manures: 'Nitro-Chalk' (27.5% N) at 140 kg and on a second occasion at 570 kg. Weedkillers: Isoproturon at 2.0 kg with mecoprop at 2.0 kg, ioxynil at 0.25 kg and bromoxynil at 0.25 kg in 200 l. Fungicides: Propiconazole at 0.25 kg with carbendazim at 0.25 kg and maneb at 1.6 kg in 200 l.

Seed: Longbow, sown at 170 kg.

Cultivations, etc.: - Ploughed, disced: 10 Sept, 1984.

Spring-tine cultivated, SOWDATE 11 SEPT plots rotary harrowed and seed sown: 11 Sept. SOWDATE 26 SEPT plots rotary harrowed and seed sown: 26 Sept. SOWDATE 15 OCT plots rotary harrowed and seed sown: 15 Oct. First N applied: 28 Feb, 1985. Weedkillers applied: 12 Mar. Second N applied: 15 Apr. Fungicides applied: 28 June. Combine harvested: 27 Aug.

NOTE: Plant samples were taken in October and November 1984, and April and July 1985 for assessments of take-all and eyespot. Additional samples were taken in November 1984 for assessment of *Septoria tritici*.

85/R/WW/3

GRAIN TONNES/HECTARE

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

SEED DR	NONE	TRIADIME	MEAN	
PREVCROP				
BARLEY	8.83	9.20	9.02	
OATS	10.20	10.30	10.25	
MEAN	9.52	9.75	9.63	
SOWDATE	11 SEPT	26 SEPT	15 OCT	MEAN
PREVCROP				
BARLEY	8.33	9.35	9.37	9.02
OATS	10.63	10.13	9.99	10.25
MEAN	9.48	9.74	9.68	9.63
SOWDATE	11 SEPT	26 SEPT	15 OCT	MEAN
SEED DR				
NONE	9.35	9.66	9.55	9.52
TRIADIME	9.61	9.83	9.81	9.75
MEAN	9.48	9.74	9.68	9.63
PREVCROP	SOWDATE	11 SEPT	26 SEPT	15 OCT
BARLEY	SEED DR			
	NONE	8.06	9.17	9.27
	TRIADIME	8.60	9.54	9.47
OATS	SEED DR			
	NONE	10.64	10.14	9.82
	TRIADIME	10.61	10.12	10.15

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

TABLE	PREVCROP	SEED DR	SOWDATE	PREVCROP SEED DR
SED	0.230	0.143	0.176	0.271
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: PREVCROP				0.203

TABLE	PREVCROP SOWDATE	SEED DR SOWDATE	PREVCROP SEED DR SOWDATE
SED	0.307	0.249	0.395
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: PREVCROP			0.351

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

STRATUM	DF	SE	CV%
BLOCK.WP	20	0.430	4.5

GRAIN MEAN DM% 81.5

PLOT AREA HARVESTED 0.00274