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79/R/B/1 Sowing Dates, Mildew Control and Growth Study - Barley

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79/R/B/1

WINTER BARLEY

SCWING DATES, MILDEW CONTROL & GROWTH STUDY

Object: To study the effects of sowing date and mildew control on the incidence of mildew, growth and yield of winter barley - Long Hoos I/II.

Sponsors: A. Bainbridge, J.F. Jenkyn, M.E. Finney, J.N. Gallagher.

Design: 2 blocks of 24 plots with confounding.

Whole plot dimensions: 2.13 x 9.14.

Treatments: All combinations of:-

1. SCW DATE Dates of sowing:
 6 OCT
 13 OCT
 20 OCT
 1 NOV
 15 NOV
 29 NOV
2. TRIFORIN Triforine:
 NONE None
 SEEDRESS Seed dressed at 2.7 g a.i. per kg of seed
3. TRIDEMOR(1) Tridemorph in early spring:
 NONE None
 SPRAYED Sprayed on 26 Apr, 1979
4. TRIDEMOR(2) Tridemorph in late spring:
 NONE None
 SPRAYED Sprayed on 1 June

NOTES: (1) Tridemorph was applied at 0.53 kg in 340 l
(2) The guard areas between sides of each plot were sown to winter barley, variety Athene, and used for the experiment 'N & Growth Regulator' (see 79/R/B/5).

Basal applications: Manures: (0:20:20) at 310 kg. 'Nitro-Chalk' at 370 kg.
Weedkillers: Mecoprop at 2.5 l in 220 l. Irrigation: 25 mm.

Seed: Hoppel, sown at 180 kg.

Cultivations, etc.: - Ploughed: 22 Sept, 1978. Rolled: 27 Sept. PK applied, rotary harrowed: 4 Oct. Irrigation applied: 9 Nov. N applied: 3 May, 1979. Weedkiller applied: 9 May. All plots except SCW DATE 29 NOV harvested: 6 Aug. SCW DATE 29 NOV harvested: 15 Aug. Previous crops: Spring barley 1977, Winter beans 1978.

NOTE: Seedling emergence counts were made in April. Tillers and grains per ear were counted in July. Disease assessments were made in June and July.

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GRAIN TONNES/HECTARE

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

TRIFORIN	NONE	SEEDRESS	MEAN
SOW DATE			
6 OCT	7.82	7.88	7.85
13 OCT	8.03	8.03	8.03
20 OCT	7.93	7.82	7.87
1 NOV	7.82	8.32	8.07
15 NOV	7.03	7.56	7.29
29 NOV	5.83	5.52	5.68
MEAN	7.41	7.52	7.47
TRIDEMOR(1)	NONE	SPRAYED	MEAN
SOW DATE			
6 OCT	7.35	8.34	7.85
13 OCT	7.84	8.23	8.03
20 OCT	7.74	8.00	7.87
1 NOV	7.95	8.19	8.07
15 NOV	7.36	7.22	7.29
29 NOV	5.90	5.45	5.68
MEAN	7.36	7.57	7.47
TRIDEMOR(1)	NONE	SPRAYED	MEAN
TRIFORIN			
NONE	7.30	7.52	7.41
SEEDRESS	7.42	7.63	7.52
MEAN	7.36	7.57	7.47
TRIDEMOR(2)	NONE	SPRAYED	MEAN
SOW DATE			
6 OCT	7.85	7.84	7.85
13 OCT	7.91	8.16	8.03
20 OCT	7.67	8.07	7.87
1 NOV	7.97	8.17	8.07
15 NOV	7.27	7.32	7.29
29 NOV	5.28	6.08	5.68
MEAN	7.32	7.61	7.47
TRIDEMOR(2)	NONE	SPRAYED	MEAN
TRIFORIN			
NONE	7.24	7.58	7.41
SEEDRESS	7.41	7.64	7.52
MEAN	7.32	7.61	7.47
TRIDEMOR(2)	NONE	SPRAYED	MEAN
TRIDEMOR(1)			
NONE	7.18	7.54	7.36
SPRAYED	7.47	7.68	7.57
MEAN	7.32	7.61	7.47

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GRAIN TONNES/HECTARE

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

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

TABLE	SOW DATE	TRIFORIN	TRIDEMOR(1)	TRIDEMOR(2)
SED	0.222	0.128	0.128	0.128

TABLE	SOW DATE	SOW DATE	TRIFORIN	SOW DATE
	TRIFORIN	TRIDEMOR(1)	TRIDEMOR(1)	TRIDEMOR(2)
SED	0.314	0.314	0.181	0.314

TABLE	TRIFORIN	TRIDEMOR(1)
	TRIDEMOR(2)	TRIDEMOR(2)
SED	0.181	0.181

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

STRATUM	DF	SE	CV%
BLOCK.WP	20	0.444	6.0

GRAIN MEAN DM% 85.4

PLOT AREA HARVESTED 0.00150