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79/R/B/6 Times of Applying Tridemorph and Demeton-s-methyl - Barley

Rothamsted Research

Rothamsted Research (1980) *79/R/B/6 Times of Applying Tridemorph and Demeton-s-methyl - Barley* ; Yields Of The Field Experiments 1979, pp 297 - 298 - DOI:
<https://doi.org/10.23637/ERADOC-1-45>

79/R/B/6

WINTER BARLEY

TIMES OF APPLYING TRIDEMORPH & DEMETON-S-METHYL

Object: To study the effects of times of applying tridemorph and demeton-s-methyl on the incidence of mildew, aphids and aphid-borne viruses and on the yield of winter barley - Scout.

Sponsors: A. Bainbridge, M.E. Finney, J.F. Jenkyn, R.T. Plumb.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 2.13 x 6.10.

Treatments: All combinations of:-

1. TRI A Tridemorph in autumn (17 Nov, 1978):

NONE
SPRAYED

2. TRI ES Tridemorph in early spring (26 Apr, 1979):

NONE
SPRAYED

3. TRI LS Tridemorph in late spring (1 June):

NONE
SPRAYED

plus two extra treatments:

DEMETON Times of applying demeton-s-methyl:

AUTUMN 17 Nov, 1978
SPRING 1 June, 1979

NOTES: (1) Tridemorph was applied at 0.53 kg in 340 l.

(2) Demeton-s-methyl was applied at 0.25 kg in 340 l

Basal applications: Manures: FYM at 20 t. (10:23:23) at 250 kg combine drilled.
'Nitro-Chalk' at 380 kg. Weedkillers: Paraquat at 0.42 kg ion in 220 l.
Methabenzthiazuron at 2.35 kg in 220 l.

Seed: Sonja, sown at 190 kg.

Cultivations, etc.: FYM applied: 25 Aug, 1978. Ploughed: 7 Sept. Paraquat applied: 3 Oct. Seed sown: 5 Oct. Methabenzthiazuron applied: 12 Oct. N applied: 17 Apr, 1979. Harvested: 5 Aug. Previous crops: Winter barley 1977 and 1978.

NOTES: (1) Seedling emergence counts were made in November and in April.

(2) Foliar diseases were assessed in November, June and July.

Tillers and grains per ear were counted in July.

79/R/B/6

GRAIN TONNES/HECTARE

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

TRI ES	NONE	SPRAYED	MEAN
TRI A			
NONE	6.63	6.93	6.78
SPRAYED	6.91	6.81	6.86
MEAN	6.77	6.87	6.82
TRI LS	NONE	SPRAYED	MEAN
TRI A			
NONE	6.73	6.83	6.78
SPRAYED	6.93	6.79	6.86
MEAN	6.83	6.81	6.82
TRI LS	NONE	SPRAYED	MEAN
TRI ES			
NONE	6.64	6.90	6.77
SPRAYED	7.02	6.72	6.87
MEAN	6.83	6.81	6.82
TRI A	TRI LS	NONE	SPRAYED
NONE	TRI ES		
	NONE	6.49	6.78
	SPRAYED	6.98	6.88
SPRAYED	NONE	6.80	7.02
	SPRAYED	7.06	6.56
DEMETON	AUTUMN	SPRING	MEAN
	6.85	6.84	6.85

GRAND MEAN 6.82

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

TABLE	DEMETON	TRI A	TRI ES	TRI LS
SED	0.251	0.126	0.126	0.126
TABLE	TRI A	TRI A	TRI ES	TRI A
	TRI ES	TRI LS	TRI LS	TRI ES
				TRI LS
				& DEMETON
SED	0.178	0.178	0.178	0.251

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

STRATUM	DF	SE	CV%
BLOCK.WP	18	0.308	4.5

GRAIN MEAN DM% 85.8

PLOT AREA HARVESTED 0.00130