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75/ R/O/1 - Sowing Dates & Insecticides - Oats

Rothamsted Research

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75/R/0/1

WINTER AND SPRING OATS

SOWING DATES AND INSECTICIDES

Object: To study the effects of dates of sowing and times of applying insecticides on the incidence of cereal aphids, barley yellow dwarf virus (BYDV) and yield of winter oats - Summerdells II.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 24.4.

Treatments: All combinations of:-

1. Sowing dates:	SOW DATE
1 November 1974	1 NOV
5 December 1974	5 DEC
27 February 1975	27 FEB
2. Phorate granules to seedbed:	INSCTCDE(1)
None	NONE
Phorate at 5 kg	PHORATE
3. Menazon spray:	INSCTCDE(2)
None	NONE
Menazon (0.7 l 'Saphi-Col' in 450 l)	MENAZON

NOTE: It was intended to sow winter oats in September, October and November, but because of poor weather, only two sowings were possible and the third date was altered to spring oats sown on 27 February.

Basal applications: Manures: (0:20:20) combine drilled, at 260 kg for November sowing and at 310 kg for December and February sowings, 'Nitro-Chalk' at 380 kg. Weedkiller: Ioxynil with mecoprop ('Actril C' at 7.0 l in 220 l).

Seed: Winter oats: Maris Quest, sown at 190 kg.
Spring oats: Manod, sown at 190 kg.

75/R/0/1

Cultivations, etc.:— Ploughed: 15 Oct, 1974. Rotary harrowed: 29 Oct.
Phorate applied and spring-tine cultivated Nov. plots: 31 Oct.
Seed sown: 1 Nov. Phorate applied, power harrowed and seed sown on Dec.
plots: 5 Dec. Phorate applied, power harrowed and seed sown on Feb.
plots: 27 Feb, 1975. N applied: 20 Apr. Weedkiller applied:
12 May. Menazon applied: 13 June. Combine harvested, winter oats:
4 Aug, spring oats: 18 Aug. Previous crops: Barley 1973 and 1974.

NOTES: (1) Aphid and virus counts were made on five occasions.
(2) Ear samples were taken for 'blasting' counts.
(3) 1000 grain weights were determined.

75/R/0/1

GRAIN TONNES/HECTARE

*** TABLE OF MEANS ***

INSCTCDE(1)	NONE	PHORATE	MEAN
SOW DATE			
1 NOV	6.26	6.34	6.30
5 DEC	6.15	6.04	6.09
27 FEB	3.71	4.07	3.89
MEAN	5.37	5.49	5.43

INSCTCDE(2)	NONE	MENAZON	MEAN
SOW DATE			
1 NOV	6.30	6.30	6.30
5 DEC	6.12	6.06	6.09
27 FEB	3.82	3.95	3.89
MEAN	5.42	5.44	5.43

INSCTCDE(2)	NONE	MENAZON	MEAN
INSCTCDE(1)			
NONE	5.35	5.39	5.37
PHORATE	5.48	5.49	5.49
MEAN	5.42	5.44	5.43

INSCTCDE(1)	NONE	MENAZON	PHORATE	MEAN
INSCTCDE(2)	NONE	MENAZON	NONE	MENAZON
SOW DATE				
1 NOV	6.31	6.21	6.29	6.40
5 DEC	6.16	6.14	6.09	5.99
27 FEB	3.59	3.82	4.06	4.09

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

TABLE	SOW DATE	INSCTCDE(1)	INSCTCDE(2)	SOW DATE	INSCTCDE(1)
SED	0.067	0.055	0.055	0.095	

TABLE	SOW DATE	INSCTCDE(1)	SOW DATE	INSCTCDE(1)	INSCTCDE(2)
SED	0.095	0.077	0.134		

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

STRATUM	DF	SE	CV%
BLOCK.WP	33	0.190	3.5

GRAIN MEAN DM% 87.6

338

PLOT AREA HARVESTED 0.00390