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Yields of the Field Experiments 1974



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74/R/0/1

WINTER OATS

SOWING DATES, APHIDS AND BYDV

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 - Whittlocks.

Sponsors: R.T. Plumb, J.H. Stevenson.

Design: 3 randomised blocks of 19 plots.

Whole plot dimensions: 6.40 x 24.4. Area harvested: 0.00390.

Treatments: All combinations of :-1. Sowing dates:

SOW DATE 27 September 1973 27 Sept 26 October 1973 26 Oct 22 November 1973 22 Nov

2. Autumn/winter insecticide

None

None Phorate at 5.0 kg a.i. as granules to seedbed on 25 Sept, 25 Oct and 20 Nov, 1973, respectively Phorate Menazon, (0.7 1 'Saphicol' in 450 1) as foliar spray at 4-leaf stage applied to Sept sowing on 20 Nov and to Oct and Nov sowings on 30 Apr, 1974 Menazon

3. Spring insecticide

None

None Menazon (0.7 1 'Saphicol' in 450 1) as foliar spray on 20 May Menazon

Plus one extra treatment per block given dimethoate (0.8 1 'Rogor' in 450 1 on 20 May) SOW DATE 27 Sept, INSCTCDE(1) None, INSCTCDE(2) Dimeth.

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 310 kg. Weedkiller: MCPA, mecoprop and dicamba ('Banlene Plus' at 5.6 1 in 220 1).

Seed: Peniarth, sown at 190 kg.

INSCICDE(1)

INSCTCDE(2)

74/R/0/1

- Cultivations, etc.:- Deep-tine cultivated twice: 19 and 20 Sept, 1973. Disced: 24 Sept. Rotary harrowed for first sowing: 26 Sept. Power harrowed for second sowing: 25 Oct. Power harrowed for third sowing: 20 Nov. N applied: 19 Apr, 1974. Weedkiller applied: 22 Apr. Combine harvested: 15 Aug. Previous crops: Barley 1972 and 1973.
- NOTE: Assessments of seedling emergence were made in autumn and spring. Aphid counts were made on three occasions and virus assessed on two occasions.

Standard error per plot. Grain, tonnes/hectare: 0.325 or 4.6% (36 d.f.)

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TABLE OF MEANS

GRAIN: TONNES/HECTARE

	None	INSCICDE(Phorate		izon	INSC: None	ICDE (2) Menazon	Mean	
SOW DATE								
27 Sept 26 Oct 22 Nov	6.73 7.02 7.42	6.94 7.30 7.43	6.	84 95 54	6.78 7.17 7.53	6.89 7.01 7.39	6.84 7.09 7.46	
			None Phor Mena	ate	7.09 7.30 7.09	7.02 7.15 7.12	7.06 7.23 7.11	
Mean					7.16	7.10	7.13	
INSCTCDE(1) INSCTCDE(2)	None	None None Menazon Dimeth			Phorate None Menazon 1		Menazon None Menazon	
SOW DATE								
27 Sept 26 Oct 22 Nov	6.74 7.09 7.45	6.72 6.96 7.39	7.26	6.7 7.5 7.5	7 7.03	6.86	6.87 7.04 7.46	
STANDARD ERF	ORS OF I	DIFFERENCE	S			1		
SUW DATE	INSCTCDE	(1) INSCIO	CDE(2)		DATE DE(1) INS	SOW DATE I CTCDE(2) I	NSCTCDE(1) NSCTCDE(2)	
0.108	0.1	.08	0.088	0.188		0.153	0.153	
SUW DATE INSCTCDE(1) INSCTCDE(2)								
0.265								
Grand mean	7.14							

Mean D.M. % 82.1

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