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Yields of the Field Experiments 1988



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88/R/RA/3

WINTER OILSEED RAPE

VARIETIES, PESTS AND DISEASES

Object: To investigate the effects of full pest and disease control on a range of low glucosinolate varieties compared with Bienvenu - Black Horse II.

Sponsors: C.J. Rawlinson, I.H. Williams.

Design: 2 randomised blocks of 24 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments: All combinations of:-

VARIETY Varieties:

ARIANA Ariana
BIENVENU Bienvenu
COBRA Cobra
NRPB 2 NRPB 0087-2
PBI 1 PBI 1
PBI 3 PBI 3

2. INSCTCDE Insecticides:

NONE None

FULL Deltamethrin at 0.0062 kg in 200 l on 13 Nov, 1987.

Azinphos methyl at 0.40 kg and demeton-S-methyl sulphone at 0.12 kg in 300 l on 18 Apr, 1988.

Triazophos at 0.42 kg in 200 1 on 16 June.

3. FUNGCIDE Fungicides:

NONE None

FULL Prochloraz at 0.50 kg in 200 l on 18 Nov, 1987 and 11 Apr, 1988. Iprodione at 0.50 kg in 200 l on

Basal applications: Manures: 'Nitram' at 140 kg, later at 260 kg and a third time at 460 kg. Weedkiller: Metazachlor at 1.2 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Enhance' at 0.50 l) in 500 l.

Seed: Varieties, sown at 8.0 kg.

Cultivations, etc.:- Ploughed: 12 Aug, 1987. First N applied: 18 Aug.
Disced: 9 Sept. Seed sown: 17 Sept. Weedkillers applied: 5 Oct.
Second N applied: 1 Mar, 1988. Third N applied: 7 Apr. Desiccant
with wetting agent applied: 27 July. Combine harvested: 1 Aug.
Previous crops: W. wheat 1986, w. barley 1987.

NOTE: Disease assessments were made on eight occasions throughout the season and pest numbers were recorded in autumn, spring and summer. Glucosinolate contents, plant tissues and seed, were measured throughout the season.

88/R/RA/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

**** Tables of means ****

	TCDE IETY	NONE	FULL	Mean	
AR	IANA	3.59	3.50	3.54	
BIEN	VENU	3.80	4.24	4.02	
C	OBRA	3.44	3.97	3.70	
NR	PB 2	3.31	3.81	3.56	
P	BI 1	3.76	3.82	3.79	
P	BI 3	3.68	3.98	3.83	
	Mean	3.60	3.89	3.74	
FUNG		NONE	FULL	Mean	
	IETY				
	IANA	3.19	3.90	3.54	
	VENU	3.76	4.29	4.02	
	OBRA	3.20	4.21	3.70	
	PB 2	3.11	4.01	3.56	
	BI 1	3.17	4.41	3.79	
P	BI 3	3.10	4.56	3.83	
1	Mean	3.26	4.23	3.74	
FUNGCIDE		NONE	FULL	Mean	
INSCTCDE					
NONE			4.15	3.60	
	FULL	3.47	4.31	3.89	
1	Mean	3.26	4.23	3.74	
	INSCTCDE	NONE		FULL	
VARIETY	FUNGCIDE	NONE	FULL	NONE	FULL
ARIANA		3.02	4.16	3.36	3.64
BIENVENU		3.72	3.88	3.79	4.70
COBRA		2.68	4.20	3.71	4.22
NRPB 2		2.83	3.79	3.40	4.22
PBI 1		3.13	4.40	3.22	4.42
PBI 3		2.89	4.47	3.31	4.65

88/R/RA/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

*** Standard errors of differences of means ***

VARIETY	INSCTCDE	FUNGCIDE	VARIETY INSCTCDE
0.159	0.092	0.092	0.225
VARIETY	INSCTCDE	VARIETY	
FUNGCIDE	FUNGCIDE	INSCTCDE FUNGCIDE	
		& EXTRA	
0.225	0.130	0.318	

***** Stratum standard errors and coefficients of variation *****

Stratum d.f. s.e. cv% BLOCK.WP 24 0.318 8.5

GRAIN MEAN DM% 78.1

PLOT AREA HARVESTED 0.00299