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Yields of the Field Experiments 1987

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87/R/RA/3 Varieties and Fungicides - W. Oilseed Rape

Rothamsted Research

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87/R/RA/3

WINTER OILSEED RAPE

VARIETIES AND FUNGICIDES

Object: To study the effects of times of applying fungicides on the incidence of diseases and on the yield of six varieties of w. oilseed rape - Black Horse I.

Sponsor: C.J. Rawlinson.

Design: 2 randomised blocks of 8 plots split into 6.

Whole plot dimensions: 21.0 x 15.0.

Treatments: All combinations of:-

Whole plots

1. AUT FUNG Fungicide in autumn:

NONE	None
PROCHLOR	Prochloraz at 0.50 kg in 500 l on 12 Nov, 1986

2. SPR FUNG Fungicide in spring:

NONE	None
PROCHLOR	Prochloraz at 0.50 kg in 200 l on 21 Apr, 1987

3. SUM FUNG Fungicide in summer:

NONE	None
IPRODION	Iprodione at 0.50 kg in 200 l on 15 June, 1987

Sub plots

4. VARIETY Varieties:

ARIANA	Ariana
BIENVENU	Bienvenu
JET NEUF	Jet Neuf
LIRADONNA	Liradonna
MIKADO	Mikado
RAFAL	Rafal

Basal applications: Manures: (0:18:36) at 690 kg. 'Nitram' at 140 kg and later at 800 kg. Weedkillers: Sodium trichloroacetate at 16 kg in 200 l. Metazachlor at 1.2 kg with fluazifop-P-butyl at 0.19 kg and a wetting agent ('Agral' at 0.20 l) in 200 l. Insecticides: Deltamethrin at 0.0062 kg in 200 l. Azinphos methyl at 0.40 kg and demeton-S-methyl sulphone at 0.12 kg in 300 l. Bird repellent: 'Hoppit' at 3.0 l in 220 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Enhance' at 0.50 l) in 500 l.

87/R/RA/3

Seed : Varieties, sown at 8.0 kg.

Cultivations, etc.: - Spring-tine cultivated: 8 Aug, 1986. PK applied: 11 Aug. Sodium trichloroacetate applied, N applied: 13 Aug. Seed sown: 2 Sept. Remaining weedkillers applied: 4 Oct. Deltamethrin applied: 11 Oct. Bird repellent applied: 12 Dec. Second N applied: 17 Feb, 1987. Remaining insecticides applied: 28 Apr. Desiccant with wetting agent applied: 28 July. Combine harvested: 3 Aug. Previous crops: W. wheat 1985, w. barley 1986.

NOTE: Diseases were assessed between November and July. Growth stage, height and plant development were recorded from May to harvest. Ripening and lodging were assessed before harvest and stubble stem population counts made immediately after harvest.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

SPR FUNG	NONE PROCHLOR		Mean					
AUT FUNG								
NONE	3.16	3.43	3.29					
PROCHLOR	3.53	3.32	3.43					
Mean	3.35	3.38	3.36					
SUM FUNG	NONE IPRODION		Mean					
AUT FUNG								
NONE	3.18	3.41	3.29					
PROCHLOR	3.28	3.58	3.43					
Mean	3.23	3.49	3.36					
SUM FUNG	NONE IPRODION		Mean					
SPR FUNG								
NONE	3.22	3.48	3.35					
PROCHLOR	3.24	3.51	3.38					
Mean	3.23	3.49	3.36					
VARIETY	ARIANA	BIENVENU	JET	NEUF	LIRADONN	MIKADO	RAFAL	Mean
AUT FUNG								
NONE	3.28	3.88	2.56	2.89	3.91	3.23	3.29	3.29
PROCHLOR	3.25	3.83	2.73	3.16	4.27	3.32	3.43	3.43
Mean	3.27	3.86	2.65	3.03	4.09	3.27	3.36	3.36
VARIETY	ARIANA	BIENVENU	JET	NEUF	LIRADONN	MIKADO	RAFAL	Mean
SPR FUNG								
NONE	3.23	3.79	2.70	2.96	4.03	3.37	3.35	3.35
PROCHLOR	3.31	3.93	2.59	3.10	4.14	3.18	3.38	3.38
Mean	3.27	3.86	2.65	3.03	4.09	3.27	3.36	3.36

87/R/RA/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

VARIETY	ARIANA	BIENVENU	JET	NEUF	LIRADONN	MIKADO	RAFAL	Mean
SUM FUNG								
NONE	3.14	3.76	2.54	2.88	3.93	3.14	3.23	
IPRODION	3.40	3.96	2.76	3.17	4.25	3.41	3.49	
Mean	3.27	3.86	2.65	3.03	4.09	3.27	3.36	
AUT FUNG	SUM FUNG		NONE	IPRODION				
NONE	SPR FUNG							
	NONE	3.00	3.32					
PROCHLOR	PROCHLOR	3.36	3.49					
	NONE	3.44	3.63					
	PROCHLOR	3.12	3.53					
AUT FUNG	VARIETY	ARIANA	BIENVENU	JET	NEUF	LIRADONN	MIKADO	RAFAL
NONE	SPR FUNG							
	NONE	3.15	3.66	2.43	2.83	3.79	3.11	
PROCHLOR	PROCHLOR	3.41	4.10	2.70	2.96	4.03	3.36	
	NONE	3.31	3.91	2.98	3.08	4.28	3.62	
	PROCHLOR	3.20	3.76	2.49	3.23	4.25	3.01	
AUT FUNG	VARIETY	ARIANA	BIENVENU	JET	NEUF	LIRADONN	MIKADO	RAFAL
NONE	SUM FUNG							
	NONE	3.02	3.79	2.56	2.68	3.78	3.26	
PROCHLOR	IPRODION	3.54	3.98	2.57	3.11	4.04	3.20	
	NONE	3.25	3.73	2.51	3.09	4.08	3.01	
	IPRODION	3.26	3.94	2.95	3.23	4.45	3.62	
SPR FUNG	VARIETY	ARIANA	BIENVENU	JET	NEUF	LIRADONN	MIKADO	RAFAL
NONE	SUM FUNG							
	NONE	3.12	3.64	2.62	2.76	3.86	3.30	
PROCHLOR	IPRODION	3.33	3.94	2.79	3.15	4.21	3.43	
	NONE	3.15	3.88	2.45	3.01	4.00	2.97	
	IPRODION	3.46	3.98	2.73	3.18	4.29	3.40	

87/R/RA/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

VARIETY	AUT FUNG	SUM FUNG	NONE IPRODION	
		SPR FUNG	2.86	3.44
ARIANA	NONE	NONE	3.19	3.64
	PROCHLOR	PROCHLOR	3.39	3.23
BIENVENU	NONE	PROCHLOR	3.11	3.29
	PROCHLOR	NONE	3.57	3.75
JET NEUF	NONE	PROCHLOR	4.00	4.21
	PROCHLOR	NONE	3.70	4.12
LIRADONN	NONE	PROCHLOR	3.76	3.76
	PROCHLOR	NONE	2.33	2.52
MIKADO	NONE	PROCHLOR	2.78	2.61
	PROCHLOR	NONE	2.91	3.05
RAFAL	NONE	PROCHLOR	2.12	2.85
	PROCHLOR	NONE	2.55	3.10
	NONE	PROCHLOR	2.80	3.11
	PROCHLOR	NONE	2.96	3.21
	NONE	PROCHLOR	3.21	3.26
	PROCHLOR	NONE	3.56	4.02
	NONE	PROCHLOR	4.00	4.07
	PROCHLOR	NONE	4.17	4.39
	NONE	PROCHLOR	3.99	4.51
	PROCHLOR	NONE	3.10	3.11
	NONE	PROCHLOR	3.42	3.30
	PROCHLOR	NONE	3.50	3.75
	NONE	PROCHLOR	2.53	3.50

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

Table s.e.d.	AUT FUNG	SPR FUNG	SUM FUNG	VARIETY
	0.136	0.136	0.136	0.104
Table s.e.d.	AUT FUNG	AUT FUNG	SPR FUNG	AUT FUNG
	SPR FUNG	SUM FUNG	SUM FUNG	VARIETY
	0.193	0.193	0.193	0.191
Except when comparing means with the same level(s) of				
AUT FUNG				
Table s.e.d.	SPR FUNG	SUM FUNG	AUT FUNG	AUT FUNG
	VARIETY	VARIETY	SPR FUNG	SPR FUNG
			SUM FUNG	VARIETY
	0.191	0.191	0.273	0.271
Except when comparing means with the same level(s) of				
SPR FUNG				
SUM FUNG				
AUT FUNG.SPR FUNG				
		0.147		0.208

87/R/RA/3

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

Table	AUT FUNG	SPR FUNG	AUT FUNG
	SUM FUNG	SUM FUNG	SPR FUNG
	VARIETY	VARIETY	SUM FUNG
s.e.d.	0.271	0.271	0.383
Except when comparing means with the same level(s) of			
AUT FUNG.SUM FUNG	0.208		
SPR FUNG.SUM FUNG		0.208	
AUT FUNG.SPR FUNG.SUM FUNG			0.294

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	7	0.273	8.1
BLOCK.WP.SP	40	0.294	8.7

GRAIN MEAN DM% 83.9

SUB PLOT AREA HARVESTED 0.00345