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

Rothamsted Research

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86/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 - Bylands.

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 200 l on 12 Dec, 1985 |
| 2. SPR FUNG | Fungicide in spring: |
| NONE | None |
| PROCHLOR | Prochloraz at 0.50 kg in 200 l on 1 May, 1986 |
| 3. SUM FUNG | Fungicide in summer: |
| NONE | None |
| IPRODION | Iprodione at 0.50 kg in 500 l on 25 June |

Sub plots

- | | |
|------------|------------|
| 4. VARIETY | Varieties: |
| BIENVENU | Bienvenu |
| DARMOR | Darmor |
| JET NEUF | Jet Neuf |
| LIRADONN | Liradonna |
| MIKADO | Mikado |
| RAFAL | Rafal |

Basal applications: Manures: (0:24:24) at 200 kg. 'Nitro-Chalk' at 180 kg. 'Nitram' at 720 kg. Weedkillers: Clopyralid and propyzamide (as 'Matrikerb' at 1.6 kg) in 500 l applied with the insecticide. Insecticide: Deltamethrin at 0.0062 kg. Desiccant: Diquat at 0.60 kg ion in 500 l with a wetting agent ('Agral' at 0.50 l).

Seed: Varieties sown at 8.0 kg.

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Cultivations, etc.: - Rotary grubbed: 16 Aug, 1985. PK applied, 'Nitro-Chalk' applied, spring-tine cultivated: 19 Aug. Spring-tine cultivated: 30 Aug. Seed sown: 9 Sept. Weedkillers and insecticide applied: 30 Oct. 'Nitram' applied: 12 Mar, 1986. Desiccant with wetting agent applied: 24 July. Combine harvested: 2 Aug. Previous crops: W. wheat 1984, w. barley 1985.

NOTE: Disease incidence and severity were assessed on four occasions between November and July. Growth stage, height and plant development were recorded from May to harvest. Ripening and lodging were assessed before harvest and numbers of volunteers after harvest.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SPR FUNG	NONE	PROCHLOR	MEAN
AUT FUNG			
NONE	3.21	3.42	3.32
PROCHLOR	3.35	3.56	3.45
MEAN	3.28	3.49	3.38

SUM FUNG	NONE	IPRODION	MEAN
AUT FUNG			
NONE	3.42	3.21	3.32
PROCHLOR	3.36	3.54	3.45
MEAN	3.39	3.37	3.38

SUM FUNG	NONE	IPRODION	MEAN
SPR FUNG			
NONE	3.32	3.24	3.28
PROCHLOR	3.47	3.51	3.49
MEAN	3.39	3.37	3.38

VARIETY	BIENVENU	DARMOR	JET NEUF	LIRADONN	MIKADO	RAFAL	MEAN
AUT FUNG							
NONE	3.47	3.14	3.41	2.97	3.56	3.35	3.32
PROCHLOR	3.54	3.38	3.54	3.05	3.69	3.51	3.45
MEAN	3.50	3.26	3.47	3.01	3.63	3.43	3.38

VARIETY	BIENVENU	DARMOR	JET NEUF	LIRADONN	MIKADO	RAFAL	MEAN
SPR FUNG							
NONE	3.46	3.06	3.37	2.88	3.60	3.30	3.28
PROCHLOR	3.55	3.45	3.58	3.14	3.65	3.55	3.49
MEAN	3.50	3.26	3.47	3.01	3.63	3.43	3.38

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GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

VARIETY	BIENVENU	DARMOR	JET NEUF	LIRADONN	MIKADO	RAFAL	MEAN
SUM FUNG							
NONE	3.41	3.25	3.48	3.06	3.67	3.48	3.39
IPRODION	3.60	3.26	3.47	2.96	3.58	3.38	3.37
MEAN	3.50	3.26	3.47	3.01	3.63	3.43	3.38
SPR FUNG	NONE		PROCHLOR				
SUM FUNG	NONE	IPRODION	NONE	IPRODION			
AUT FUNG							
NONE	3.49	2.94	3.36	3.48			
PROCHLOR	3.16	3.54	3.57	3.54			
AUT FUNG	VARIETY	BIENVENU	DARMOR	JET NEUF	LIRADONN	MIKADO	RAFAL
SPR FUNG							
NONE	NONE	3.41	2.88	3.25	2.90	3.56	3.28
PROCHLOR	PROCHLOR	3.53	3.40	3.57	3.04	3.56	3.42
PROCHLOR	NONE	3.50	3.25	3.49	2.87	3.65	3.33
PROCHLOR	PROCHLOR	3.57	3.51	3.58	3.24	3.74	3.69
AUT FUNG	VARIETY	BIENVENU	DARMOR	JET NEUF	LIRADONN	MIKADO	RAFAL
SUM FUNG							
NONE	NONE	3.56	3.16	3.52	3.12	3.65	3.54
PROCHLOR	IPRODION	3.39	3.13	3.30	2.82	3.47	3.15
PROCHLOR	NONE	3.26	3.35	3.45	3.01	3.69	3.42
PROCHLOR	IPRODION	3.81	3.40	3.63	3.10	3.69	3.60
SPR FUNG	VARIETY	BIENVENU	DARMOR	JET NEUF	LIRADONN	MIKADO	RAFAL
SUM FUNG							
NONE	NONE	3.39	3.11	3.45	2.89	3.69	3.41
PROCHLOR	IPRODION	3.53	3.02	3.29	2.88	3.51	3.20
PROCHLOR	NONE	3.44	3.39	3.51	3.24	3.65	3.56
PROCHLOR	IPRODION	3.66	3.51	3.64	3.04	3.65	3.55

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GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

VARIETY	AUT FUNG	SUM FUNG	NONE	IPRODION
BIENVENU	NONE	SPR FUNG	3.73	3.10
		NONE	3.39	3.67
	PROCHLOR	PROCHLOR	3.04	3.96
DARMOR	NONE	PROCHLOR	3.48	3.65
		NONE	3.00	2.76
	PROCHLOR	PROCHLOR	3.31	3.50
JET NEUF	NONE	PROCHLOR	3.22	3.27
		NONE	3.48	3.53
	PROCHLOR	PROCHLOR	3.59	2.92
LIRADONN	NONE	PROCHLOR	3.46	3.68
		NONE	3.32	3.67
	PROCHLOR	PROCHLOR	3.57	3.59
MIKADO	NONE	PROCHLOR	3.12	2.67
		NONE	3.12	2.97
	PROCHLOR	PROCHLOR	2.65	3.08
RAFAL	NONE	PROCHLOR	3.37	3.12
		NONE	3.83	3.28
	PROCHLOR	PROCHLOR	3.46	3.66
	PROCHLOR	NONE	3.55	3.74
	PROCHLOR	PROCHLOR	3.83	3.65
	NONE	PROCHLOR	3.67	2.89
	PROCHLOR	PROCHLOR	3.42	3.41
		NONE	3.14	3.51
	PROCHLOR	PROCHLOR	3.69	3.69

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

TABLE	AUT FUNG	SPR FUNG	SUM FUNG	VARIETY
SED	0.152	0.152	0.152	0.074
TABLE	AUT FUNG SPR FUNG	AUT FUNG SUM FUNG	SPR FUNG SUM FUNG	AUT FUNG VARIETY
SED	0.215	0.215	0.215	0.179
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
	AUT FUNG			0.104
TABLE	SPR FUNG VARIETY	SUM FUNG VARIETY	AUT FUNG SPR FUNG SUM FUNG	AUT FUNG SPR FUNG VARIETY
SED	0.179	0.179	0.304	0.254
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
	SPR FUNG			0.104
	SUM FUNG	0.104		
	AUT FUNG.SPR FUNG			0.147

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GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

TABLE	AUT FUNG SUM FUNG VARIETY	SPR FUNG SUM FUNG VARIETY	AUT FUNG SPR FUNG SUM FUNG VARIETY
SED	0.254	0.254	0.359
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:			
AUT FUNG.SUM FUNG	0.147		
SPR FUNG.SUM FUNG		0.147	
AUT FUNG.SPR FUNG.SUM FUNG			0.209

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

STRATUM	DF	SE	CV%
BLOCK.WP	7	0.304	9.0
BLOCK.WP.SP	40	0.209	6.2

GRAIN MEAN DM% 85.2

SUB PLOT AREA HARVESTED 0.00347