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# Yields of the Field Experiments 1985

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

### Rothamsted Research

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85/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 three varieties of w. oilseed rape - Black Horse II.

Sponsor: C.J. Rawlinson.

Design: 2 randomised blocks of 8 plots split into 3.

Whole plot dimensions: 9.0 x 17.0.

Treatments: All combinations of:-

Whole plots

- |             |  |
|-------------|--|
| 1. AUT FUNG | Fungicide in autumn:                           |
| NONE        | None   |
| PROCHLOR    | Prochloraz at 0.50 kg in 200 l on 26 Nov, 1984 |
| 2. SPR FUNG | Fungicide in spring:                           |
| NONE        | None   |
| PROCHLOR    | Prochloraz at 0.50 kg in 500 l on 4 Apr, 1985  |
| 3. SUM FUNG | Fungicide in summer:                           |
| NONE        | None   |
| IPRODION    | Iprodione at 1.0 kg in 500 l on 14 June        |

Sub plots

- |            |            |
|------------|------------|
| 4. VARIETY | Varieties: |
| BIENVENU   |            |
| DARMOR     |            |
| JET NEUF   |            |

Basal applications: Manures: (0:24:24) at 200 kg. 'Nitro-Chalk' (26% N) at 190 kg followed by 'Nitro-Chalk' (27.5% N) at 900 kg.  
Weedkillers: Propyzamide with clopyralid (as 'Matrikerb' at 1.6 kg) in 500 l. Benazolin ethyl ester at 0.30 kg with clopyralid at 0.05 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Agral' at 0.5 l) in 500 l.

Seed: Varieties sown at 8 kg.

Cultivations, etc.: - Discd twice: 31 July, 1984. PK applied: 8 Aug. First N applied: 10 Aug. Seed sown: 5 Sept. 'Matrikerb' applied: 30 Oct. Second N applied: 27 Feb, 1985. Benazolin ethyl ester with clopyralid applied: 6 Mar. Desiccant with wetter applied: 25 July. Combine harvested: 12 Aug. Previous crops: W. barley 1983 and 1984.

85/R/RA/3

NOTE: Establishment counts were made in October. Dry weights and leaf areas were measured in November, March and April. Disease incidence and severity were assessed on four occasions between January and July. Seed shedding on plots was assessed from germinated grain after harvest.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SUM FUNG	NONE	IPRODION	MEAN	
AUT FUNG				
	NONE	3.60	3.73	3.67
PROCHLOR	3.83	3.81		3.82
MEAN	3.72	3.77		3.74
SUM FUNG	NONE	IPRODION	MEAN	
SPR FUNG				
	NONE	3.60	3.73	3.67
PROCHLOR	3.83	3.81		3.82
MEAN	3.72	3.77		3.74
VARIETY	BIENVENU	DARMOR	JET NEUF	MEAN
AUT FUNG				
	NONE	4.12	3.37	3.51
PROCHLOR	4.48	3.52	3.46	3.82
MEAN	4.30	3.44	3.49	3.74
VARIETY	BIENVENU	DARMOR	JET NEUF	MEAN
SPR FUNG				
	NONE	4.21	3.41	3.39
PROCHLOR	4.39	3.48	3.59	3.82
MEAN	4.30	3.44	3.49	3.74
VARIETY	BIENVENU	DARMOR	JET NEUF	MEAN
SUM FUNG				
	NONE	4.18	3.49	3.48
IPRODION	4.42	3.39	3.50	3.77
MEAN	4.30	3.44	3.49	3.74
AUT FUNG	SUM FUNG	NONE	IPRODION	
	SPR FUNG			
	NONE	3.47	3.69	
	PROCHLOR	3.73	3.78	
PROCHLOR	NONE	3.74	3.78	
	PROCHLOR	3.93	3.84	
AUT FUNG	VARIETY	BIENVENU	DARMOR	JET NEUF
	SPR FUNG			
	NONE	3.93	3.37	3.42
	PROCHLOR	4.30	3.36	3.60
PROCHLOR	NONE	4.48	3.44	3.35
	PROCHLOR	4.48	3.60	3.58

85/R/RA/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

	VARIETY	BIENVENU	DARMOR	JET NEUF
AUT FUNG	SUM FUNG			
NONE	NONE	3.99	3.36	3.45
PROCHLOR	IPRODION	4.24	3.37	3.58
	NONE	4.37	3.63	3.50
	IPRODION	4.59	3.42	3.43

	VARIETY	BIENVENU	DARMOR	JET NEUF
SPR FUNG	SUM FUNG			
NONE	NONE	4.09	3.43	3.29
PROCHLOR	IPRODION	4.33	3.39	3.48
	NONE	4.27	3.56	3.66
	IPRODION	4.51	3.40	3.52

	VARIETY	BIENVENU	DARMOR	JET NEUF
AUT FUNG	SPR FUNG	SUM FUNG		
NONE	NONE	NONE	3.73	3.33
		IPRODION	4.13	3.42
PROCHLOR	PROCHLOR	NONE	4.25	3.39
		IPRODION	4.36	3.32
PROCHLOR	NONE	NONE	4.44	3.53
		IPRODION	4.52	3.36
PROCHLOR	PROCHLOR	NONE	4.30	3.73
		IPRODION	4.66	3.47

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

TABLE	AUT FUNG	SPR FUNG	SUM FUNG	VARIETY
SED	0.056	0.056	0.056	0.090

TABLE	AUT FUNG SPR FUNG	AUT FUNG SUM FUNG	SPR FUNG SUM FUNG	AUT FUNG VARIETY
SED	0.079	0.079	0.079	0.118
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: AUT FUNG				0.127

TABLE	SPR FUNG VARIETY	SUM FUNG VARIETY	AUT FUNG SPR FUNG SUM FUNG	AUT FUNG SPR FUNG VARIETY
SED	0.118	0.118	0.111	0.167
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: SPR FUNG				0.127
SUM FUNG				0.127
AUT FUNG, SPR FUNG				0.180

85/R/RA/3

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	0.167	0.167	0.236
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:			
AUT FUNG.SUM FUNG	0.180		
SPR FUNG.SUM FUNG		0.180	
AUT FUNG.SPR FUNG.SUM FUNG			0.254

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

STRATUM	DF	SE	CV%
BLOCK.WP	7	0.111	3.0
BLOCK.WP.SP	16	0.254	6.8

GRAIN MEAN DM% 88.4

SUB PLOT AREA HARVESTED 0.00389