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85/R/RA/5 Fungicides and Spray Additive - W. Oilseed Rape

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85/R/RA/5

WINTER OILSEED RAPE

FUNGICIDES AND SPRAY ADDITIVE

Object: To study the effects of times of applying a spray additive and two fungicides, singly and together, on the incidence of diseases and on the yield of w. oilseed rape - Black Horse II.

Sponsor: C.J. Rawlinson.

Design: 2 randomised blocks of 18 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments: All combinations of:-

- | | |
|--------------|----------------------------------|
| 1. ADDITIVE | Spray additive: |
| NONE | None |
| MIN OIL | Mineral oil, 'Actipron' at 5.0 l |
| 2. FUNGICIDE | Fungicides, applied at 0.5 kg: |
| BENOMYL | Benomyl |
| PROCHLOR | Prochloraz |
| 3. APP TIME | Times of applying fungicide: |
| AUTUMN | Autumn, on 26 Nov, 1984 |
| SPRING | Spring, on 4 Apr, 1985 |
| AUT+SPNG | Autumn and spring as above |

plus four extra treatments:

EXTRA

- | | |
|----------|---|
| NONE | None (triplicated) |
| MINOIL A | Mineral oil as above in autumn |
| MINOIL S | Mineral oil as above in spring |
| MINOILAS | Mineral oil as above in autumn and spring |

NOTE: Fungicide and mineral oil treatments were applied in 200 l of water in autumn and 500 l in spring.

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: Jet Neuf, seed dressed gamma HCH, thiram and fenpropimorph, sown at 8 kg.

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

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NOTE: Establishment counts were made in November. Disease incidence and severity were assessed on five 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 *****

FUNGICIDE	BENOMYL	PROCHLOR	MEAN	
ADDITIVE				
NONE	3.50	3.63	3.57	
MIN OIL	3.68	3.43	3.56	
MEAN	3.59	3.53	3.56	
APP TIME	AUTUMN	SPRING	AUT+SPNG	MEAN
ADDITIVE				
NONE	3.42	3.46	3.82	3.57
MIN OIL	3.47	3.55	3.65	3.56
MEAN	3.45	3.51	3.73	3.56
APP TIME	AUTUMN	SPRING	AUT+SPNG	MEAN
FUNGICIDE				
BENOMYL	3.56	3.44	3.79	3.59
PROCHLOR	3.33	3.58	3.68	3.53
MEAN	3.45	3.51	3.73	3.56
FUNGICIDE	BENOMYL	PROCHLOR		
APP TIME	AUTUMN	SPRING	AUT+SPNG	
ADDITIVE				
NONE	3.48	3.29	3.75	3.37
MIN OIL	3.64	3.58	3.83	3.30
EXTRA	NONE	MINOIL A	MINOIL S	MINOILAS
	3.62	3.67	3.68	3.24
				MEAN
				3.57

GRAND MEAN 3.57

85/R/RA/5

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

TABLE	EXTRA	ADDITIVE	FUNGICIDE	APP TIME	
SED	0.404 0.297	0.165	0.165	0.202	MIN REP MAX-MIN

TABLE	ADDITIVE FUNGICIDE	ADDITIVE APP TIME	FUNGICIDE APP TIME	ADDITIVE FUNGICIDE APP TIME
SED	0.233	0.286	0.286	0.404

EXTRA
MAX-MIN NONE V ANY OF THE REMAINDER
MIN REP ANY OF THE REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	19	0.404	11.3

GRAIN MEAN DM% 86.8

PLOT AREA HARVESTED 0.00271