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93/R/RAW/2 Varieties and Fungicides - W. Oilseed Rape

Rothamsted Research

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93/R/RAW/2

WINTER OILSEED RAPE

VARIETIES AND FUNGICIDES

Object: To investigate the effects of fungicides on a range of low glucosinolate varieties - Bones Close.

Sponsors: V.J. Church, B.D.L. Fitt.

Design: 4 randomised blocks of 2 x 6 plots.

Whole plot dimensions: 3.0 x 21.0.

Treatments: All combinations of:-

1. **VARIETY** Varieties:

CAPRCORN	Capricorn
ENVOL	Envol
FALCON	Falcon
LIBRAVO	Libravo
SAMOURAI	Samourai
ROCKET	Rocket

2. **FUNGICIDE** Fungicides:

NONE	None
PR+CA+IP	Prochloraz and carbendazim in autumn and spring, iprodione in summer

Experimental diary:

27-Jul-92 : B : Shallow cultivated with Bomford Dynadrive.
28-Jul-92 : B : Rolled.
18-Aug-92 : B : Sting CT at 2.0 l in 200 l.
20-Aug-92 : B : Ploughed, furrow pressed.
26-Aug-92 : T : **VARIETY** CAPRCORN, ENVOL, FALCON, LIBRAVO, SAMOURAI, ROCKET: Rotary harrowed. All varieties dressed Lindex-Plus FS, drilled at 120 seeds per square metre.
22-Oct-92 : B : Benazalox at 0.75 l and Butisan S at 1.5 l in 200 l.
08-Dec-92 : T : **FUNGICIDE** PR+CA+IP: Sportak 45 at 1.1 l and Tripart Defensor FL at 0.50 l in 200 l.
18-Feb-93 : B : 34.5% N at 170 kg.
08-Mar-93 : T : **FUNGICIDE** PR+CA+IP: Sportak 45 at 1.1 l and Tripart Defensor FL at 0.50 l in 200 l.
23-Mar-93 : B : 34.5% N at 370 kg.
18-May-93 : T : **FUNGICIDE** PR+CA+IP: Rovral Flo at 2.0 l in 200 l.
19-Jul-93 : B : Stefes Diquat at 3.0 l with Vassgro Spreader at 0.40 l in 400 l.
26-Jul-93 : B : Combine harvested.

Previous crops: W. barley 1991 and 1992.

93/R/RAW/2

NOTE: Samples were taken throughout the year for disease assessments on leaves, stems and pods. Oil content of seed was measured after harvest.

GRAIN (AT 90% DM) TONNES/HECTARE

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

FUNGCIDE VARIETY	NONE	PR+CA+IP	Mean
CAPRCORN	4.17	4.68	4.42
ENVOL	4.59	5.08	4.84
FALCON	4.08	4.27	4.18
LIBRAVO	4.16	4.68	4.42
SAMOURAI	4.33	4.73	4.53
ROCKET	3.87	3.99	3.93
Mean	4.20	4.57	4.39

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

VARIETY	FUNGCIDE	VARIETY FUNGCIDE
0.090	0.052	0.127

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.180	4.1

GRAIN MEAN DM% 83.2

PLOT AREA HARVESTED 0.00483