

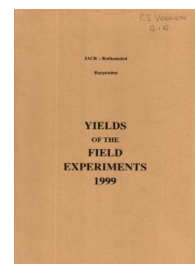
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99/R/CS/511 Management of Herbicide Resistant Crops - W. Rape

Rothamsted Research

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99/R/CS/508

GRAIN TONNES/HECTARE

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

S1999	
-99	9.72
F99	9.74
Mean	9.73

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

S1999
0.149

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	59	0.596	6.1

GRAIN MEAN DM% 81.8

PLOT AREA HARVESTED 0.00227

99/R/CS/511

MANAGEMENT OF HERBICIDE RESISTANT CROPS

Object: To identify possible benefits and potential management problems that may arise in farm rotations that include herbicide resistant rape and beet - Black Horse.

Sponsors: P.J.W. Lutman.

The first year, w. rape.

Design: 2 replicates of 2 plots split into 4 sub-plots.

Whole plot dimensions: 96.0 x 120.0.

Sub-plot dimensions: 24.0 x 120.0.

Treatments: All combinations of:-

1. **CROP ROT** Crop rotations in 1999, 2000, 2001 and 2002:

R1 Rape, cereal, cereal, rape
R2 Rape, cereal, beet, cereal

2. **RESIST** Herbicide resistance or none:

RR Glyphosate resistant
LL Glufosinate resistant
IME Imazamox resistant
CON Conventional

Experimental diary:

08-Aug-98 : B : : Baled, started.
09-Aug-98 : B : : Carted bales, completed.
20-Aug-98 : B : : Shakerated, started.
21-Aug-98 : B : : Shakerated, completed.
29-Aug-98 : B : : Rolled.
01-Sep-98 : B : : Ploughed and furrow pressed, started.
02-Sep-98 : B : : Ploughed and furrow pressed, completed.
04-Sep-98 : T : CON : Combination drilled, Apex, tr. Lindex-Plus FS Seed Treatment, at 120 seeds/m² with the Accord drill.
: T : IME : Combination drilled at 120 seeds/m² with the Accord drill.
: T : LL : Combination drilled at 120 seeds/m² with the Accord drill.
: T : RR : Combination drilled at 120 seeds/m² with the Accord drill.
07-Sep-98 : B : : Hardy at 7.5 kg.
18-Sep-98 : B : : Stefes Cypermethrin 2 at 250 ml in 200 l.
: B : : Hardy at 7.5 kg.
24-Sep-98 : B : : 34.5% N at 120 kg.
28-Sep-98 : T : CON : Butisan S at 1.5 l in 200 l.
09-Oct-98 : T : IME : Imazamox at 1.75 l in 200 l.
11-Nov-98 : T : RR : Roundup Biactive at 3.0 l in 200 l.
: T : LL : tm)Harvest at 0.6 l in 200 l.
: T : LL : tm)Liberty at 2.4 l in 200 l.
: T : CON : tm)Laser at 0.5 l in 200 l.
: T : CON : tm)Cropoil at 2.0 l in 200 l.
: B : : tm)Punch C at 0.4 l in 200 l.
: B : : tm)Stefes Cypermethrin 2 at 250 ml in 200 l.
13-Nov-98 : T : R2 IME : tm)Laser at 0.5 l in 200 l.