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99/W/WW/1 Crop Density and Light Interception - W. Wheat

Rothamsted Research

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99/R/CS/512

MANAGEMENT OF RESISTANT VOLUNTEER RAPE

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

Sponsors: P.J.W. Lutman.

The first year, w. wheat.

Design: 3 randomised blocks of 4 plots.

Plot dimensions: 12.0 x 48.0.

Treatments:

RESIST	Rape; conventional or herbicide resistant undersown into w. wheat
RR	Glyphosate
LL	Glufosinate
IME	Imazamox
CON	Conventional

Experimental diary:

20-Aug-98	: B :	: Shakerated, started.
21-Aug-98	: B :	: Shakerated, completed.
29-Aug-98	: B :	: Rolled.
02-Sep-98	: B :	: Ploughed and furrow pressed.
	: T : CON	: Apex, recleaned, hand broadcast at 10,000 seeds/m ² .
	: T : IME	: Hand broadcast at 10,000 seeds/m ² .
	: T : LL	: Hand broadcast at 10,000 seeds/m ² .
	: T : RR	: Hand broadcast at 10,000 seeds/m ² .
07-Sep-98	: B :	: Hardy at 7.5 kg.
16-Sep-98	: B :	: Combination drilled, Hereward, tr. Beret Gold, at 260 seeds/m ² with the Nordsten drill.
17-Sep-98	: B :	: Rolled.
18-Sep-98	: B :	: Hardy at 7.5 kg.
03-Dec-98	: B :	: tm)Isoguard at 2.0 l in 200 l.
	: B :	: tm)Stomp 400 SC at 3.0 l in 200 l.
04-Mar-99	: B :	: 34.5% N at 145 kg.
15-Apr-99	: B :	: 34.5% N at 435 kg.
30-Apr-99	: B :	: tm)Ally at 30 g in 200 l.
	: B :	: tm)Duplosan at 2.0 l in 200 l.
	: B :	: tm)Opus at 1.0 l in 200 l.
14-May-99	: B :	: tm)Grasp at 1.0 l in 200 l.
	: B :	: tm)Output at 1.0 l in 200 l.
25-May-99	: B :	: tm)Amistar at 0.8 l in 200 l.
	: B :	: tm)Folicur at 0.5 l in 200 l.
17-Jun-99	: B :	: tm)Amistar at 0.25 l in 100 l.
	: B :	: tm)Magnesium sulphate at 5.0 kg in 100 l.
31-Jul-99	: B :	: Combine harvested, started.
01-Aug-99	: B :	: Combine harvested, completed.

Previous crops: W. wheat 1997, w. oats 1998.

NOTE: Because of contractual reasons the yields are not published in this edition.

99/W/WW/1

WINTER WHEAT

CROP DENSITY AND LIGHT INTERCEPTION

Object: To study the timing of canopy closure and measure light interception at different crop densities - Woburn, Broad Mead I/IV.

Sponsors: J. Storkey, J.W. Cussans.

Design: 3 randomised blocks of 4 plots

Plot dimensions: 4.0 x 10.0.

Treatments:

DENSITY	Crop density, plants/m ² :
D0	0
D1	50
D2	125
D3	320

Experimental diary:

23-Sep-98 : B : : tm)Alpha Glyphogan at 3.0 l in 200 l.
 : B : : tm)Codacide Oil at 0.5 l in 200 l.
02-Oct-98 : B : : Hardy at 7.5 kg.
13-Oct-98 : B : : Rotary harrowed.
 : T : D1,D2,D3 : Drilled Consort, tr Beret Gold, as treatment with
 the Nordsten drill.
14-Oct-98 : B : : Hardy at 7.5 kg.
09-Feb-99 : B : : Muriate of potash at 600 kg.
17-Feb-99 : B : : tm)Isoguard at 2.0 l in 200 l.
 : B : : tm)Platform S at 1.0 kg in 200 l.
19-Feb-99 : B : : 34.5% N at 145 kg.
02-Apr-99 : B : : 34.5% N at 377 kg.
03-Apr-99 : B : : tm)Topik at 125 ml in 200 l.
 : B : : tm)Ally at 30 g in 200 l.
 : B : : tm)Cropoil at 2.5 l in 200 l.
08-Apr-99 : B : : tm)Folicur at 0.5 l in 200 l.
 : B : : tm)Atlas Chlormequat 700 at 2.0 l in 200 l.
 : B : : tm)Marshland Liquid Manganese Complex at 2.0 l in 200 l.
 : B : : tm)Profol Copper 500 at 0.2 l in 200 l.
30-Apr-99 : B : : Starane 2 at 0.5 l in 200 l.
26-May-99 : B : : Folicur at 1.0 l in 200 l.
10-Jun-99 : B : : Folicur at 0.25 l in 200 l.
22-Aug-99 : B : : Combine harvested.

Previous crops: W. wheat 1998, lupins 1997.