

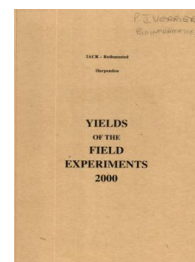
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## Yields of the Field Experiments 2000

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### 00/R/CS/511 Management of Herbicide Resistant Crops - W. Wheat

#### Rothamsted Research

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00/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 second year, w. rape.

**Design:** 3 randomised blocks of 4 plots split into 4 sub-plots.

**Whole plot dimensions:** 12.0 x 48.0.

**Sub-plot dimensions:** 12.0 x 12.0.

**Treatments:**

Whole plots

**RES 1999** Type of rape undersown into w. wheat in 1999:

(RR) Glyphosate resistant  
(LL) Glufosinate resistant  
(IME) Imazamox resistant  
(CON) Conventional

Sub-plots

**RES 2000** Rape; conventional or herbicide resistant sown in 2000 (seed dressing in brackets):

RR Glyphosate resistant (tr. Rovral Liquid FS)  
LL Glufosinate resistant (tr. Rovral Liquid FS)  
IME Imazamox resistant (tr. Rovral Liquid FS)  
CON Conventional; Apex (tr. Lindex-Plus FS Seed Treatment)

**Experimental diary:**

18-Aug-99 : B : : Triple superphosphate at 580 kg.  
26-Aug-99 : B : : Ploughing started.  
27-Aug-99 : B : : Ploughing completed.  
09-Sep-99 : B : : Cleaver seed broadcast.  
10-Sep-99 : T : : Combination drilled, varieties at 120 seeds/m<sup>2</sup> with the Accord drill. Rolled.  
11-Sep-99 : T : CON : tm)Katamaran at 2.0 l in 220 l.  
: T : CON : tm)Alpha Trifluralin 48 EC at 2.0 l in 220 l.  
14-Sep-99 : B : : PBI Slug Pellets at 8.0 kg.  
14-Oct-99 : B : : tm)Punch C at 0.4 l in 200 l.  
: B : : tm)Hallmark at 100 ml in 200 l.  
20-Oct-99 : B : : 34.5% N at 87 kg.  
27-Oct-99 : T : IME : Imazamox at 1.75 l in 220 l.  
28-Oct-99 : T : RR : Roundup Biactive at 2.0 l in 220 l.  
29-Oct-99 : T : LL : Liberty at 3.0 l in 220 l.  
16-Dec-99 : B : : Punch C at 0.4 l in 200 l.  
09-Feb-00 : B : : Sulphan (30% N, 7.6% S) at 166 kg.  
06-Mar-00 : B : : Sulphan (30% N, 7.6% S) at 433 kg.  
09-May-00 : B : : tm)Bavistin DF at 1.0 kg in 50:50 mix with Bavistin FL at 1.0 l in 200 l.

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**Experimental diary:**

09-May-00 : B : : tm)Hallmark with Zeon Technology at 75 ml in 200 l.  
12-Jul-00 : B : : tm)Enhance Low Foam at 400 ml in 400 l.  
          : B : : tm)Reglone at 3.0 l in 400 l.  
25-Jul-00 : B : : Combine harvested.

Previous crops: W. oats 1998, w. wheat 1999.

- NOTES:** (1) Estimates of seed loss from combine harvesting were made in July and August 1999. Weed populations were assessed in October, November and January. Percentage flowering was assessed in April and May and weed biomass was measured in June.
- (2) Because of contractual reasons the yields are not published in this edition.