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Yields of the Field Experiments 1997



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Rothamsted Research

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97/R/WW/6

WINTER WHEAT

HERBICIDE RESISTANT BLACK-GRASS

Object: To evaluate the efficacy of different herbicides on a herbicideresistant black-grass (Alopecurus myosuroides) population and to determine any changes in the degree of resistance in the progeny of surviving plants - Claycroft.

Sponsor: S.R. Moss.

Design: 2 blocks of 15 plots duplicated.

Whole plot dimensions: 3.0 x 12.0.

Treatments:

HERBCIDE	Herbicide type, rate of active ingredient and timing (black-grass growth stage):
A	Isoproturon 500 at 2.5 kg post emergence
В	Isoproturon 500 at 1.5 kg post emergence
С	Tri-allate at 2.25 kg pre-emergence and isoproturon at 1.5 kg at two leaf stage
D	Trifluralin at 0.96 kg pre-emergence and isoproturon at 1.5 kg at two leaf stage
Е	Trifluralin at 0.96 kg at two leaf stage and isoproturon at 1.5 kg at two leaf stage
F	Pendimethalin at 1.32 kg at two leaf stage and isoproturon at 1.5 kg at two leaf stage
G	Trifluralin at 0.96 kg at one leaf stage and isoproturon at 1.5 kg at two leaf stage
Н	Clodinafop-propargyl at 0.5 kg with trifluralin at 1.2 kg at two leaf stage
J	Fenoxaprop-P-ethyl at 0.069 kg at two leaf stage
K	Clodinafop-propargyl at 0.03 kg with adjuvant at two leaf stage
L	JV485 pre-emergence
M	Agent X at two leaf stage
N	JV485 pre-emergence and Agent X at two leaf stage
0	None
P .	None

NOTE: Herbicides JV485 and Agent X are under commercial development, composition undisclosed

Experimental diary:

15-Sep-96 : B : Roundup at 1.5 l with Vassgro Non-ionic at 300 ml in 200 l.

23-Sep-96 : B : Harrowed.

25-Sep-96 : B : Ploughed and furrow pressed.

30-Sep-96 : B : Harrowed.

17-Oct-96 : B : Rotary harrowed, Mercia, dressed Sibutol, drilled at 380 seeds per m².

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Experimental diary:
   17-Oct-96 : B : Scythe LC at 2.0 1 with Vassgro Non-ionic at 100 ml in
                      200 1.
   22-Oct-96 : T : HERBCIDE C: Avadex BW Granular at 22.5 kg.
             : T : HERBCIDE L, N: JV485 at 0.35 1 in 220 1.
             : T : HERBCIDE D: MTM Trifluralin at 2.0 1 in 220 1.
   23-Oct-96 : B : Draza at 5.5 kg.
   08-Nov-96 : T : HERBCIDE G: MTM Trifluralin at 2.0 1 in 220 1.
   03-Mar-97 : T : HERBCIDE J: Cheetah Super at 1.25 l in 220 l.
             : T : HERBCIDE H: Hawk at 2.5 1 with Actipron at 1.0 1 in
                      220 1.
             : T : HERBCIDE B, C, D, E, F, G: MSS Iprofile at 3.0 1 in
                      220 1.
             : T : HERBCIDE A: MSS Iprofile at 5.0 1 in 220 1.
             : T : HERBCIDE M, N: Agent X at 20 g in 220 1.
             : T : HERBCIDE F: Stomp 400 SC at 3.3 1 in 220 1.
             : T : HERBCIDE K: Topik at 0.125 1 with Actipron at 1.0 1 in
                      220 1.
   11-Apr-97 : B : 34.5% N at 568 kg.
   04-Jun-97 : B : Folicur at 0.5 1 with Mallard 750 EC at 0.3 1 and Pointer
                      at 0.5 1 in 300 1.
   14-Aug-97 : B : Combine harvested.
Previous crops: W. wheat 1995 and 1996.
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NOTE: Black-grass plant populations were assessed in December 1996 and heads were counted in June 1997.

96/R/WW/6

GRAIN TONNES/HECTARE

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

HERBCIDE

A	5.53
В	5.13
С	6.41
D	6.26
E	5.67
F	5.26
G	5.99
H	6.50
J	4.99
K	6.43
L	6.66
M	5.67
N	6.17
NIL	4.27
Mean	5.68

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

HERBCIDE

0.264 min.rep 0.229 max-min

HERBCIDE

min.rep Any of the remainder max-min NIL v any of the remainder

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

Stratum d.f. s.e. cv%

BLOCK.WP 45 0.374 6.6

GRAIN MEAN DM% 86.2

PLOT AREA HARVESTED 0.00230