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00/W/BES/20 Mechanical Weed Control in Spring Beans

Rothamsted Research

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00/W/BES/20

SPRING BEANS

MECHANICAL WEED CONTROL IN SPRING BEANS

Object: To measure the efficacy of mechanical weed control in spring beans - Woburn, Lansome II/III.

Sponsor: P.J.W. Lutman.

Design: 3 blocks of 2 x 5 + 2 plots.

Whole plot dimensions: 4.0 x 10.0.

Treatments:

1. **WEEDS** Sown weeds and seed rate:

 OA Oats 80 seeds/m²
 CH Chickweed (*stellaria media*) 200 seeds/m²

2. **MECHCTRL** Mechanical control timing and number of passes:

 - None
 W1SP April single pass
 W1DP April double pass
 W2SP May single pass
 W2DP May double pass

3. **EXTRA** Weed free:

 NO1 Herbicide applied
 NO2 Weeded twice

Experimental diary:

08-Mar-00 : B : : Flexitined.
16-Mar-00 : T : CH : Broadcast chickweed at 200 seeds/m².
 : T : OA : Broadcast oats at 80 seeds/m².
 : B : : Combination drilled, Quattro, at 40 seeds/m² with the
 Accord drill. Rolled.
19-Apr-00 : B : : Decis at 250 ml in 200 l.
03-May-00 : T : W1SP: Weeded once.
 : T : W1DP: Weeded twice.
15-May-00 : T : NO2,W2DP: Weeded twice.
20-May-00 : B : : Hallmark at 150 ml in 200 l.
 : T : NO1 : Basagran SG at 1.65 kg in 220 l.
11-Jun-00 : B : : Folio at 2.0 l in 200 l.
26-Jun-00 : B : : tm)Bravo 500 at 1.5 l in 200 l.
 : B : : tm)Folicur at 0.5 l in 200 l.
 : B : : tm)Aphox at 280 g in 200 l.
22-Aug-00 : B : : Combine harvested.

Previous crops: Potatoes and w. rape 1998, w. wheat 1999.

00/W/BES/20

NOTE: Emergence counts were made in April. Bean, oat and chickweed numbers, heights and biomass were measured in May and August, other weeds were identified and weighed.

GRAIN TONNES/HECTARE

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

MECHCTRL	-	W1SP	W1DP	W2SP	W2DP	Mean
WEEDS						
OA	3.73	3.45	3.26	3.79	2.91	3.43
CH	4.01	3.34	4.01	4.12	3.40	3.78
Mean	3.87	3.40	3.63	3.96	3.15	3.60

EXTRA	NO1	NO2	Mean
	4.27	3.45	3.86

Grand mean 3.65

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

WEEDS	MECHCTRL	WEEDS MECHCTRL & EXTRA
0.124	0.196	0.278

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	22	0.340	9.3

GRAIN MEAN DM% 86.4

PLOT AREA HARVESTED 0.00240