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89/R/CS/338 Control of Volunteers - W. Oats

Rothamsted Research

Rothamsted Research (1990) *89/R/CS/338 Control of Volunteers - W. Oats* ; Yields Of The Field Experiments 1989, pp 109 - 109 - DOI: <https://doi.org/10.23637/ERADOC-1-40>

89/R/CS/338

CONTROL OF VOLUNTEERS

Object: To study the residual effects in w. oats of a range of methods of volunteer control in w. wheat in the preceding year - Summerdells II.

Sponsors: R. Moffitt, D.G. Christian.

The second year, w. oats.

For previous year see 88/R/WW/12.

Design: 3 replicates of 6 x 3 criss-cross.

Column plot dimensions: 6.0 x 23.0.

Treatments: All combinations of:-

1. **PRIMCULT** Primary cultivations in previous year:

NONE	None until just before sowing
DYNDRIVE	'Bomford Dynadrive'
DISC	Disc
PLOUGH	Plough
ROTAVATE	Rotary cultivate
TINE	Tine

2. **PRSOWCON** Pre-sowing volunteer control in previous year:

GLYPHOS	Glyphosate
PARAQUAT	Paraquat
ROT HARR	Rotary harrow

NOTES: (1) In 1987, disc and tine treatments were cultivated twice, the others once.

(2) All plots were disced twice and rotary harrowed on 7 Nov, 1987. All were ploughed on 11 Oct, 1988 and rotary harrowed on 28 Oct.

(3) The 'Bomford Dynadrive' has a frame similar to a rotary cultivator but it has two rotating shafts containing flat, slightly twisted, spade shaped tines. The front shaft drives the rear, it is fitted with twice the number of blades and rotates at about one third the speed of the rear shaft.

Basal applications: Manure: 'Nitram' at 360 kg. Weedkiller: Methabenzthiazuron at 1.6 kg in 200 l. Fungicide: Fenpropimorph at 0.75 kg with the growth regulator and wetting agent in 200 l. Growth regulator: Chlormequat chloride at 1.6 kg with a wetting agent ('Enhance' at 0.036 l).

Seed: Image, sown at 190 kg.

Cultivations, etc.:- Seed sown: 28 Oct, 1988. Weedkiller applied: 29 Oct. N applied: 16 Apr, 1989. Fungicide with growth regulator and wetting agent applied: 16 May. Combine harvested: 23 July. Previous crops: W. barley 1987, w. wheat 1988.

NOTE: Volunteers were assessed at crop anthesis. Since volunteers were absent, yields were not taken.