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ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1987

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87/R/BR/1 Anti-feedants - Broccoli

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87/R/BR/1

BROCCOLI

ANTI-FEEDANTS

Object: To study the effects of anti-feedants on insect pests and on the yield of broccoli - Garden Plot 7.

Sponsors: D.C. Griffiths, L.E. Smart.

Design: 5 randomised blocks of 4 plots.

Whole plot dimensions: 2.4 x 5.0.

Treatments:

CHEMICAL Chemical foliar sprays:

NONE	None
AJUGA EX	Ajuga extract at 0.15 kg
DELTAMET	Deltamethrin at 0.01 kg
PIPERINE	Piperine at 0.20 kg

NOTES: (1) Treatments were applied on 7 July, 1987, 24 July, 30 July, 11 Aug, 20 Aug, 4 Sept, 11 Sept, 21 Sept and 1 Oct.
(2) They were applied by electrostatic sprayer in 10 l.

Basal applications: Manures: Chalk at 2.9 t. 'Nitro-Chalk' at 390 kg.
Weedkillers: Glyphosate at 1.4 kg in 220 l, bentazone at 0.80 kg, dichlorprop at 1.1 kg, MCPA at 0.64 kg in 220 l applied with the fungicide. Trifluralin at 1.1 kg in 220 l. Tebutam at 2.9 kg in 220 l. Fungicide: Tridemorph at 0.52 kg.

Seed: Sown at 140,000 seeds per hectare.

Cultivations, etc.:- Chalk applied: 29 Sept, 1986. Glyphosate applied: 1 Oct. Ploughed: 22 Dec. Bentazone, dichlorprop, MCPA and tridemorph applied: 6 May, 1987. Deep-tine cultivated twice, trifluralin applied, rotary cultivated, seed sown, rolled, tebutam applied: 7 May. 'Nitro-Chalk' applied: 11 May. Seed resown: 22 June. Harvested by hand: 4 Nov. Previous crops: Potatoes 1985, fallow 1986.

NOTES: (1) The first sowing failed and was resown.
(2) Flea beetle, aphid and caterpillar damage were assessed at intervals during the season.

87/R/BR/1

FRESH WEIGHT TONNES/HECTARE

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

CHEMICAL	NONE	AJUGA EX	DELTAMET	PIPERINE	Mean
	33.8	31.0	34.0	27.8	31.7

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

Table	CHEMICAL
s.e.d.	2.63

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	4.16	13.2
PLOT AREA HARVESTED	0.00048		