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Yields of the Field Experiments 1982

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82/R/PE/1 and 82/W/PE/1 Effects of Pests and Pathogens - Peas

Rothamsted Research

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82/R/PE/1 and 82/W/PE/1

PEAS

EFFECTS OF PESTS AND PATHOGENS

Object: To assess the benefits from three amounts of pest and disease control on peas - Rothamsted (R) Long Hoos III 3 and Woburn (W) Butt Close.

Sponsors: J. McEwen, A.J. Cockbain, K.E. Fletcher, D.H. Lapwood, A.G. Whitehead, D.P. Yeoman.

Design: 6 randomised blocks of 3 plots.

Whole plot dimensions: 4.27 x 7.62.

Treatments:

PATHCONT	Pest and pathogen control:
STANDARD	Thiram seed dressing
ENHANCED	Thiram seed dressing Phorate at 2.2 kg, combine drilled on 15 Apr, 1982 (R), 31 Mar (W)
FULL	Thiram seed dressing Aldicarb at 10 kg to seedbed on 15 Apr (R), 31 Mar (W)

Basal applications:
Long Hoos III 3 (R): Manures: Muriate of potash at 520 kg, chalk at 2.9 t. Weedkillers: Trietazine at 1.0 kg with simazine at 0.14 kg in 340 l. Desiccant: Diquat at 0.59 kg ion in 340 l.
Butt Close (W): Manures: (0:18:36) at 260 kg. Weedkillers: Trietazine at 0.76 kg with simazine at 0.10 kg in 280 l.

Seed: (R) and (W): Filby, dressed thiram, sown at 250 kg.

Cultivations, etc.:-
Long Hoos III 3 (R): Muriate of potash applied: 11 Nov, 1981. Chalk applied: 30 Nov. Ploughed: 4 Feb, 1982. Spring-tine cultivated: 2 Apr. Rotary cultivated, seed sown, weedkillers applied: 15 Apr. Hand weeded: 3-4 Aug. Desiccant applied: 17 Aug. Combine harvested: 3 Sept. Previous crops: Potatoes 1980, s. barley 1981.
Butt Close (W): Heavy spring-tine cultivated twice, w. wheat sown: 10 Nov, 1981. Ploughed in w. wheat: 25 Feb. Spring-tine cultivated with crumbler attached, PK applied, rotary cultivated, seed sown: 31 Mar. Weedkillers applied: 5 Apr. Combine harvested: 10 Aug. Previous crops: S. barley 1980, potatoes 1981.

NOTE: Amounts of pests and diseases were assessed during the season. Nitrogen percentages of grain were measured.

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82/R/PE/1 LONG HOOS III (R)

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

PATHCONT	STANDARD	ENHANCED	FULL	MEAN
	2.42	3.38	3.52	3.11

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	PATHCONT
SED	0.326

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.565	18.2

GRAIN MEAN DM% 84.7

PLOT AREA HARVESTED 0.00122

82/W/PE/1 BUTT CLOSE (W)

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

PATHCONT	STANDARD	ENHANCED	FULL	MEAN
	1.75	2.34	3.03	2.37

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	PATHCONT
SED	0.534

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.925	39.0

GRAIN MEAN DM% 87.0

PLOT AREA HARVESTED 0.00122

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