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Yields of the Field Experiments 1982

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Rothamsted Research

Rothamsted Research (1983) *82/R/BE/9 Precision Sowing - Spring Beans ;* Yields Of The Field Experiments 1982, pp 294 - 295 **- DOI: https://doi.org/10.23637/ERADOC-1-33**

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82/R/BE/9

SPRING BEANS

PRECISION SOWING

Object: To study the effects of precision sowing and four seed rates on the yield of s. beans - W. Barnfield I.

Sponsors: J. McEwen, D.P. Yeoman.

Design: 3 blocks of 8 plots, randomisation restricted.

Whole plot dimensions: 2.84 x 8.23.

Treatments: All combinations of:-

1. DRILL Drills:

STANDARD Standard farm drill sowing seed irregularly
PRECISN Precision drill (Nodet Gougis) sowing seed evenly spaced

2. POPULATN Plant populations (thousands per hectare):

	Target population	Populations achieved STANDARD	PRECISN
3	300	299	306
4	400	391	376
5	500	506	458
6	600	588	511

NOTE: Seed was sown in rows spaced 36 cm (14 inches) apart.

Basal applications: Weedkillers: Trietazine at 1.0 kg with simazine at 0.14 kg in 250 l.

Seed: Minden.

Cultivations, etc.:- Disced: 24 Sept, 1981. Ploughed: 29 Jan, 1982. Spring-tine cultivated: 23 and 24 Mar. Seed sown: 25 Mar. Weedkillers applied: 27 Mar. Combine harvested: 2 Sept. Previous crops: S. barley 1980 and 1981.

NOTE: Establishment counts were made. Components of yield were measured at maturity.

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82/R/BE/9

GRAIN TONNES/HECTARE

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

POPULATN DRILL	3	4	5	6	MEAN
STANDARD	3.74	3.77	3.74	3.96	3.80
PRECISN	3.89	3.60	3.85	4.09	3.86
MEAN	3.82	3.69	3.79	4.02	3.83

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

TABLE	DRILL	POPULATN	DRILL POPULATN
SED	0.097	0.137	0.193

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.237	6.2

GRAIN MEAN DM% 81.7

PLOT AREA HARVESTED 0.00176

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