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Yields of the Field Experiments 1980

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80/R/BE/12 Spring Beans Varieties

Rothamsted Research

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80/R/BE/12

SPRING BEANS

VARIETIES

Object: To compare agronomic characters and yields of two selections of red-seeded field beans and four white-seeded varieties - Long Hoos III 7.

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

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments:

VARIETY

Varieties:-

REDTICK1

Red tick 1

REDTICK3

Red tick 3

BLAZE

Maris Blaze (white-seeded)

HERRA

Herra (white-seeded)

MINDEN

Minden (white-seeded)

TOPLESS

Topless determinant (white-seeded ex P.B.I. Cambridge)

NOTE: Seed was sown by hand in rows 51 cm apart, seed spaced 5 cm apart in the row.

Basal applications: Weedkillers: Trietazine and simazine (as 'Remtal SC' at 3.0 l) in 340 l. Insecticides: Permethrin at 0.15 kg in 340 l. Pirimicarb at 0.14 kg in 340 l.

Cultivations, etc.:- Ploughed: 14 Nov, 1979. Spring-tine cultivated: 7 Apr, 1980. Power harrowed, seed sown: 8 Apr. Weedkillers applied: 15 Apr. Permethrin applied: 23 May. Pirimicarb applied: 11 July. Harvested by hand: 6 Oct. Previous crops: Potatoes 1978, s. barley 1979.

NOTE: Plant counts were made after establishment. Components of yield were measured at maturity. N content of grain was measured.

GRAIN TONNES/HECTARE

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

| VARIETY | REDTICK1 | REDTICK3 | BLAZE | HERRA | MINDEN | TOPLESS | MEAN |
|---------|----------|----------|-------|-------|--------|---------|------|
| | 4.19 | 4.19 | 5.09 | 4.24 | 4.34 | 2.57 | 4.10 |

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

| TABLE | VARIETY |
|-------|---------|
| ----- | ----- |
| SED | 0.302 |

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

| STRATUM | DF | SE | CV% |
|----------|----|-------|------|
| BLOCK.WP | 15 | 0.427 | 10.4 |

| | | | |
|----------------|------|---------------------|---------|
| GRAIN MEAN DM% | 89.8 | PLOT AREA HARVESTED | 0.00015 |
|----------------|------|---------------------|---------|