

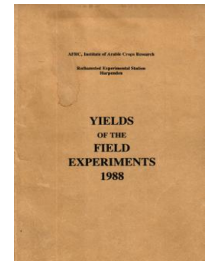
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# Yields of the Field Experiments 1988

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## 88/R/B/9 and 88/W/B/9 Varieties and N - S. Barley

### Rothamsted Research

Rothamsted Research (1989) *88/R/B/9 and 88/W/B/9 Varieties and N - S. Barley* ; Yields Of The Field Experiments 1988, pp 193 - 195 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

## 88/R/B/9 and 88/W/B/9

### SPRING BARLEY

#### VARIETIES AND N

**Object:** To study the yields of some of the newer varieties of s. barley at two rates of nitrogen - Rothamsted (R) Highfield V and Woburn (W) Horsepool Lane Close E.

**Sponsor:** R. Moffitt.

**Design:** 3 (R) and 2 (W) randomised blocks of 2 plots split into 13.

**Sub-plot dimensions:** (R) 3.0 x 10.0. (W) 4.0 x 8.0.

**Treatments:** All combinations of:-

Whole plots

1. N Nitrogen fertilizer (kg N), as 'Nitram':

| (R) | (W) |
|-----|-----|
| 125 | 117 |
| 170 | 157 |

Sub plots

2. VARIETY Varieties:

|          |                                  |
|----------|----------------------------------|
| BLENHEIM | Blenheim                         |
| CAMEO    | Cameo                            |
| CORNICHE | Corniche                         |
| DIGGER   | Digger                           |
| DOUBLET  | Doublet                          |
| FERGIE   | Fergie                           |
| JOLENE   | Jolene                           |
| KLAXON   | Klaxon                           |
| NATASHA  | Natasha                          |
| PRISMA   | Prisma                           |
| REGATTA  | Regatta                          |
| TRIUMPH  | Triumph                          |
| TRIUMPHB | Triumph + 'Baytan' seed dressing |

**Basal applications:**

Highfield V (R): Manures: (0:18:36) at 690 kg. FYM at 35 t.  
 Weedkillers: Mecoprop at 2.4 kg with clopyralid at 0.05 kg and bromoxynil at 0.24 kg in 200 l. Glyphosate at 1.1 kg in 200 l.  
 Fungicides: Tridemorph at 0.52 kg in 200 l. Propiconazole at 0.12 kg and tridemorph at 0.25 kg in 200 l.  
 Horsepool Lane Close E (W): Weedkillers: Bromoxynil at 0.24 kg and clopyralid at 0.05 kg with mecoprop at 2.1 kg in 220 l.  
 Fungicide: Tridemorph at 0.52 kg in 220 l.

**Seed:** Highfield V (R): Sown at 160 kg.  
 Horsepool Lane Close E (W): Sown at 150 kg.

88/R/B/9 and 88/W/B/9

**Cultivations, etc.:-**

Highfield V (R): PK applied: 15 Oct, 1987. FYM applied: 15 Dec. Ploughed: 18 Dec. Heavy spring-tine cultivated: 1 Mar, 1988. Rolled: 8 Mar. Rotary harrowed, seed sown, harrowed: 31 Mar. N treatments applied: 28 Apr. Weedkillers other than glyphosate applied: 10 May. Tridemorph applied: 27 May. Propiconazole and tridemorph applied: 16 June. Glyphosate applied: 9 Aug. Combine harvested: 17 Aug. Previous crops: S. barley and potatoes 1986, s. barley 1987.

Horsepool Lane Close E (W): Ploughed: 10 Mar. Discd twice: 29 Mar, 30 Mar. Spike harrowed with crumbler attached, rotary harrowed with crumbler attached, seed sown: 31 Mar. N treatments applied: 3 May. Weedkillers applied: 17 May. Fungicide applied: 27 May. Combine harvested: 22 Aug. Previous crops: Potatoes 1986, s. barley 1987.

88/R/B/9 HIGHFIELD V (R)

**GRAIN TONNES/HECTARE**

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

| N              | 125  | 170  | Mean |
|----------------|------|------|------|
| <b>VARIETY</b> |      |      |      |
| BLENHEIM       | 7.12 | 6.96 | 7.04 |
| CAMEO          | 7.30 | 7.03 | 7.16 |
| CORNICHE       | 6.03 | 6.26 | 6.14 |
| DIGGER         | 6.20 | 6.56 | 6.38 |
| DOUBLET        | 6.35 | 6.58 | 6.46 |
| FERGIE         | 6.33 | 5.51 | 5.92 |
| JOLENE         | 6.10 | 6.65 | 6.37 |
| KLAXON         | 6.45 | 6.39 | 6.42 |
| NATASHA        | 6.36 | 6.77 | 6.57 |
| PRISMA         | 6.05 | 6.26 | 6.15 |
| REGATTA        | 6.68 | 6.29 | 6.49 |
| TRIUMPH        | 6.49 | 6.30 | 6.39 |
| TRIUMPHB       | 6.05 | 5.74 | 5.90 |
| Mean           | 6.42 | 6.41 | 6.41 |

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

| VARIETY | N*    |
|---------|-------|
| 0.304   | 0.430 |

\* Within the same level of N only

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

| Stratum                 | d.f.    | s.e.  | cv% |
|-------------------------|---------|-------|-----|
| BLOCK.WP.SP             | 48      | 0.527 | 8.2 |
| GRAIN MEAN DM%          | 82.3    |       |     |
| SUB PLOT AREA HARVESTED | 0.00204 |       |     |

88/W/B/9 HORSEPOOL LANE CLOSE E (W)

GRAIN TONNES/HECTARE

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

| N              | 117  | 157  | Mean |
|----------------|------|------|------|
| <b>VARIETY</b> |      |      |      |
| BLENHEIM       | 4.86 | 4.97 | 4.91 |
| CAMEO          | 4.86 | 5.24 | 5.05 |
| CORNICHE       | 4.85 | 4.91 | 4.88 |
| DIGGER         | 4.69 | 4.99 | 4.84 |
| DOUBLET        | 4.66 | 4.70 | 4.68 |
| FERGIE         | 4.50 | 4.91 | 4.71 |
| JOLENE         | 4.82 | 4.78 | 4.80 |
| KLAXON         | 4.71 | 5.53 | 5.12 |
| NATASHA        | 4.33 | 4.29 | 4.31 |
| PRISMA         | 3.79 | 3.30 | 3.55 |
| REGATTA        | 5.06 | 4.63 | 4.84 |
| TRIUMPH        | 4.95 | 4.26 | 4.61 |
| TRIUMPHB       | 4.57 | 3.83 | 4.20 |
| Mean           | 4.66 | 4.64 | 4.65 |

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

| VARIETY | N*    |
|---------|-------|
| 0.337   | 0.476 |

\* Within the same level of N only

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

| Stratum     | d.f. | s.e.  | cv%  |
|-------------|------|-------|------|
| BLOCK.WP.SP | 24   | 0.476 | 10.2 |

GRAIN MEAN DM% 81.4

SUB PLOT AREA HARVESTED 0.00220