

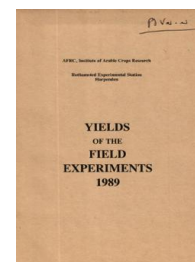
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# Yields of the Field Experiments 1989

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## 89/R/WW/4 Factors Affecting Take-all - W. Wheat

### Rothamsted Research

Rothamsted Research (1990) *89/R/WW/4 Factors Affecting Take-all - W. Wheat* ; Yields Of The Field Experiments 1989, pp 122 - 126 - DOI: <https://doi.org/10.23637/ERADOC-1-40>



89/R/WW/4

GRAIN TONNES/HECTARE

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

|          |        |          |      |      |      |
|----------|--------|----------|------|------|------|
| SOILFUNG | NONE   | NUARIMOL | Mean |      |      |
| SOWDATE  |        |          |      |      |      |
| 22 SEPT  | 6.58   | 6.81     | 6.69 |      |      |
| 28 OCT   | 6.91   | 6.99     | 6.95 |      |      |
| Mean     | 6.74   | 6.90     | 6.82 |      |      |
| SEEDRATE | 100 KG | 200 KG   | Mean |      |      |
| SOWDATE  |        |          |      |      |      |
| 22 SEPT  | 6.68   | 6.70     | 6.69 |      |      |
| 28 OCT   | 6.86   | 7.03     | 6.95 |      |      |
| Mean     | 6.77   | 6.87     | 6.82 |      |      |
| SEEDRATE | 100 KG | 200 KG   | Mean |      |      |
| SOILFUNG |        |          |      |      |      |
| NONE     | 6.68   | 6.81     | 6.74 |      |      |
| NUARIMOL | 6.86   | 6.93     | 6.90 |      |      |
| Mean     | 6.77   | 6.87     | 6.82 |      |      |
| AUTUMN N | 0      | 60       | Mean |      |      |
| SOWDATE  |        |          |      |      |      |
| 22 SEPT  | 6.55   | 6.84     | 6.69 |      |      |
| 28 OCT   | 6.86   | 7.04     | 6.95 |      |      |
| Mean     | 6.70   | 6.94     | 6.82 |      |      |
| AUTUMN N | 0      | 60       | Mean |      |      |
| SOILFUNG |        |          |      |      |      |
| NONE     | 6.58   | 6.91     | 6.74 |      |      |
| NUARIMOL | 6.82   | 6.97     | 6.90 |      |      |
| Mean     | 6.70   | 6.94     | 6.82 |      |      |
| AUTUMN N | 0      | 60       | Mean |      |      |
| SEEDRATE |        |          |      |      |      |
| 100 KG   | 6.68   | 6.86     | 6.77 |      |      |
| 200 KG   | 6.72   | 7.01     | 6.87 |      |      |
| Mean     | 6.70   | 6.94     | 6.82 |      |      |
| SPRING N | 100    | 150      | 200  | 250  | Mean |
| SOWDATE  |        |          |      |      |      |
| 22 SEPT  | 6.52   | 6.79     | 6.76 | 6.71 | 6.69 |
| 28 OCT   | 6.88   | 7.01     | 6.99 | 6.92 | 6.95 |
| Mean     | 6.70   | 6.90     | 6.87 | 6.81 | 6.82 |

89/R/WW/4

GRAIN TONNES/HECTARE

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

|          |          |        |        |      |      |
|----------|----------|--------|--------|------|------|
| SPRING N | 100      | 150    | 200    | 250  | Mean |
| SOILFUNG |          |        |        |      |      |
| NONE     | 6.51     | 6.88   | 6.93   | 6.66 | 6.74 |
| NUARIMOL | 6.89     | 6.92   | 6.82   | 6.97 | 6.90 |
| Mean     | 6.70     | 6.90   | 6.87   | 6.81 | 6.82 |
| SPRING N | 100      | 150    | 200    | 250  | Mean |
| SEEDRATE |          |        |        |      |      |
| 100 KG   | 6.70     | 6.83   | 6.85   | 6.70 | 6.77 |
| 200 KG   | 6.70     | 6.96   | 6.90   | 6.93 | 6.87 |
| Mean     | 6.70     | 6.90   | 6.87   | 6.81 | 6.82 |
| SPRING N | 100      | 150    | 200    | 250  | Mean |
| AUTUMN N |          |        |        |      |      |
| 0        | 6.49     | 6.74   | 6.84   | 6.74 | 6.70 |
| 60       | 6.91     | 7.06   | 6.90   | 6.89 | 6.94 |
| Mean     | 6.70     | 6.90   | 6.87   | 6.81 | 6.82 |
| SOWDATE  | SEEDRATE | 100 KG | 200 KG |      |      |
| 22 SEPT  | SOILFUNG |        |        |      |      |
|          | NONE     | 6.53   | 6.63   |      |      |
|          | NUARIMOL | 6.83   | 6.78   |      |      |
| 28 OCT   | NONE     | 6.83   | 6.98   |      |      |
|          | NUARIMOL | 6.89   | 7.09   |      |      |
| SOWDATE  | AUTUMN N | 0      | 60     |      |      |
| 22 SEPT  | SOILFUNG |        |        |      |      |
|          | NONE     | 6.41   | 6.75   |      |      |
|          | NUARIMOL | 6.68   | 6.93   |      |      |
| 28 OCT   | NONE     | 6.76   | 7.06   |      |      |
|          | NUARIMOL | 6.96   | 7.02   |      |      |
| SOWDATE  | AUTUMN N | 0      | 60     |      |      |
| 22 SEPT  | SEEDRATE |        |        |      |      |
|          | 100 KG   | 6.49   | 6.87   |      |      |
|          | 200 KG   | 6.60   | 6.81   |      |      |
| 28 OCT   | 100 KG   | 6.87   | 6.85   |      |      |
|          | 200 KG   | 6.85   | 7.22   |      |      |
| SOILFUNG | AUTUMN N | 0      | 60     |      |      |
| NONE     | SEEDRATE |        |        |      |      |
|          | 100 KG   | 6.50   | 6.87   |      |      |
|          | 200 KG   | 6.67   | 6.95   |      |      |
| NUARIMOL | 100 KG   | 6.86   | 6.86   |      |      |
|          | 200 KG   | 6.78   | 7.08   |      |      |

89/R/WW/4

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

|                 | SPRING N        | 100  | 150  | 200  | 250  |
|-----------------|-----------------|------|------|------|------|
| <b>SOWDATE</b>  | <b>SOILFUNG</b> |      |      |      |      |
| 22 SEPT         | NONE            | 6.18 | 6.76 | 6.94 | 6.44 |
|                 | NUARIMOL        | 6.87 | 6.81 | 6.57 | 6.98 |
| 28 OCT          | NONE            | 6.85 | 6.99 | 6.91 | 6.88 |
|                 | NUARIMOL        | 6.90 | 7.03 | 7.06 | 6.96 |
|                 | SPRING N        | 100  | 150  | 200  | 250  |
| <b>SOWDATE</b>  | <b>SEEDRATE</b> |      |      |      |      |
| 22 SEPT         | 100 KG          | 6.56 | 6.71 | 6.87 | 6.58 |
|                 | 200 KG          | 6.48 | 6.86 | 6.64 | 6.83 |
| 28 OCT          | 100 KG          | 6.84 | 6.95 | 6.83 | 6.81 |
|                 | 200 KG          | 6.91 | 7.06 | 7.15 | 7.02 |
|                 | SPRING N        | 100  | 150  | 200  | 250  |
| <b>SOILFUNG</b> | <b>SEEDRATE</b> |      |      |      |      |
| NONE            | 100 KG          | 6.48 | 6.92 | 6.81 | 6.52 |
|                 | 200 KG          | 6.55 | 6.83 | 7.05 | 6.79 |
| NUARIMOL        | 100 KG          | 6.93 | 6.74 | 6.89 | 6.88 |
|                 | 200 KG          | 6.84 | 7.09 | 6.74 | 7.06 |
|                 | SPRING N        | 100  | 150  | 200  | 250  |
| <b>SOWDATE</b>  | <b>AUTUMN N</b> |      |      |      |      |
| 22 SEPT         | 0               | 6.39 | 6.66 | 6.60 | 6.54 |
|                 | 60              | 6.66 | 6.91 | 6.91 | 6.88 |
| 28 OCT          | 0               | 6.58 | 6.82 | 7.08 | 6.94 |
|                 | 60              | 7.17 | 7.20 | 6.89 | 6.89 |
|                 | SPRING N        | 100  | 150  | 200  | 250  |
| <b>SOILFUNG</b> | <b>AUTUMN N</b> |      |      |      |      |
| NONE            | 0               | 6.36 | 6.66 | 6.86 | 6.44 |
|                 | 60              | 6.67 | 7.09 | 6.99 | 6.88 |
| NUARIMOL        | 0               | 6.61 | 6.81 | 6.82 | 7.04 |
|                 | 60              | 7.16 | 7.02 | 6.81 | 6.90 |
|                 | SPRING N        | 100  | 150  | 200  | 250  |
| <b>SEEDRATE</b> | <b>AUTUMN N</b> |      |      |      |      |
| 100 KG          | 0               | 6.44 | 6.72 | 6.88 | 6.67 |
|                 | 60              | 6.97 | 6.95 | 6.81 | 6.72 |
| 200 KG          | 0               | 6.53 | 6.76 | 6.80 | 6.81 |
|                 | 60              | 6.86 | 7.17 | 6.99 | 7.05 |

89/R/WW/4

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

|          |          |          |          |
|----------|----------|----------|----------|
| SOWDATE  | SOILFUNG | SEEDRATE | AUTUMN N |
| 0.064    | 0.064    | 0.064    | 0.064    |
| SPRING N | SOWDATE  | SOWDATE  | SOILFUNG |
|          | SOILFUNG | SEEDRATE | SEEDRATE |
| 0.090    | 0.090    | 0.090    | 0.090    |
| SOWDATE  | SOILFUNG | SEEDRATE | SOWDATE  |
| AUTUMN N | AUTUMN N | AUTUMN N | SPRING N |
| 0.090    | 0.090    | 0.090    | 0.128    |
| SOILFUNG | SEEDRATE | AUTUMN N | SOWDATE  |
| SPRING N | SPRING N | SPRING N | SOILFUNG |
|          |          |          | SEEDRATE |
| 0.128    | 0.128    | 0.128    | 0.128    |
| SOWDATE  | SOWDATE  | SOILFUNG | SOWDATE* |
| SOILFUNG | SEEDRATE | SEEDRATE | SOILFUNG |
| AUTUMN N | AUTUMN N | AUTUMN N | SPRING N |
| 0.128    | 0.128    | 0.128    | 0.180    |
| SOWDATE  | SOILFUNG | SOWDATE  | SOILFUNG |
| SEEDRATE | SEEDRATE | AUTUMN N | AUTUMN N |
| SPRING N | SPRING N | SPRING N | SPRING N |
| 0.180    | 0.180    | 0.180    | 0.180    |
| SEEDRATE |          |          |          |
| AUTUMN N |          |          |          |
| SPRING N |          |          |          |
| 0.180    |          |          |          |

\* Only when comparing means with the same level of SOWDATE.SOILFUNG.NIT, where NIT has 2 levels. The first corresponding to levels 100, 250 of SPRING N and the second to the other 2 levels.

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

|                     |         |       |     |
|---------------------|---------|-------|-----|
| Stratum             | d.f.    | s.e.  | cv% |
| BLOCK.WP            | 14      | 0.255 | 3.7 |
| GRAIN MEAN DM%      | 89.1    |       |     |
| PLOT AREA HARVESTED | 0.00226 |       |     |