

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1971

[Full Table of Content](#)



---

### 71/R/RN/9 Cereal Disease Reference Plots - W. Wheat, S. Wheat

#### Rothamsted Research

Rothamsted Research (1972) *71/R/RN/9 Cereal Disease Reference Plots - W. Wheat, S. Wheat ; Yields Of The Field Experiments 1971*, pp 99 - 100 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/R/RN/9

CEREAL DISEASE REFERENCE PLOTS

Object: To study the effects of intensive cereal cropping on the incidence of soil-borne diseases, especially in relation to seasonal variation - Pennell's Piece.

The ninth year, winter wheat, spring wheat, oats, beans.

For previous years see 63/C/10(t), 64-65/C/9, 66/C/7, 67-68/C/5 and 69-70/R/RN/9.

Whole plot dimensions: 17.1 x 4.27. Area harvested: Winter wheat - 0.00479, spring wheat: 0.00473.

Cultivations, etc.: Ploughed: 7 Sept, 1970. All plots except winter wheat plots sprayed with paraquat at 0.56 kg ion in 225 l: 4 Feb, 1971.

Winter wheat: Seed combine drilled at 202 kg: 9 Oct, 1970. Sprayed with terbutryne and related triazines ('Prebane' at 4.48 kg in 225 l): 10 Oct. N applied: 24 Mar, 1971. Sprayed with ioxynil at 0.63 kg and mecoprop at 1.90 kg in 225 l: 15 Apr. Combine harvested: 24 Aug. Variety: Cappelle.

Spring wheat: N applied: 24 Mar, 1971. Seed combine drilled at 191 kg: 31 Mar. Sprayed with ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1.4 l in 225 l): 11 May. Combine harvested: 1 Sept. Variety: Kolibri.

Oats: Seed combine drilled at 191 kg: 4 Mar, 1971. N applied: 24 Mar. Combine harvested: 16 Aug. Variety: Manod.

Spring beans: Seed placement drilled at 224 kg: 4 Mar, 1971. Sprayed with demeton-s-methyl at 245 g in 438 l: 1 July. Combine harvested: 2 Sept. Variety: Maris Bead.

- NOTES: (1) Yields were taken for winter and spring wheat only (Crop sequences 3, 4, 5 and 6).  
(2) Estimates were made in spring and summer of incidence of take-all (*Ophiobolus graminis*) and eyespot (*Cercospora herpotrichoides*).

71/R/RN/9

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

| Crop in      | C3   | C4   | C5   | C6   |      |
|--------------|------|------|------|------|------|
| 1963         | W    | BE   | O    | W    |      |
| 1964         | BE   | O    | W    | W    |      |
| 1965         | O    | W    | W    | W    |      |
| 1966         | W    | W    | W    | W    |      |
| 1967         | W    | W    | BE   | W    |      |
| 1968         | W    | BE   | O    | W    |      |
| 1969         | BE   | O    | W    | W    |      |
| 1970         | O    | W    | W    | W    | Mean |
| WINTER WHEAT |      |      |      |      |      |
|              | 5.85 | 6.76 | 6.65 | 6.61 | 6.47 |
| SPRING WHEAT |      |      |      |      |      |
|              | 3.95 | 3.85 | 3.65 | 3.44 | 3.72 |

Mean D.M. %: Winter wheat: 78.9  
 Spring wheat: 81.5