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Yields of the Field Experiments 1966

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66/R/AO/C/6 Decline of Take-all - Winter Wheat

Rothamsted Research

Rothamsted Research (1967) *66/R/AO/C/6 Decline of Take-all - Winter Wheat ; Yields Of The Field Experiments 1966*, pp 139 - 140 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/C/7.1

CEREAL DISEASE REFERENCE PLOTS

(AQ)

Pennells Piece 1966, the fourth year

For treatments etc., see 'Results' 63/C/10 (Ww = Winter wheat, Sw = Spring wheat, O = Oats, Be = Spring beans).

The varieties in 1966 were:-

Winter wheat: Cappelle

Spring wheat: Jufy I

Oats: Condor

Spring beans: Tick

These have remained unchanged since the beginning of the experiment.

Area of each plot: 0.0180. Area harvested: Winter wheat - 0.0115, spring wheat - 0.0116.

Cultivations, etc.: Ploughed: Oct 16, 1965.

Winter wheat: Seed combine drilled at 160 lb: Nov 4. 'Nitro-Chalk' applied: Mar 10, 1966. Sprayed with ioxynil/MCPA (Actril A at 2 pints in 40 gals): Mar 29. Combine harvested: Aug 23.

Spring wheat: Seed combine drilled at 180 lb, 'Nitro-Chalk' applied: Mar 11, 1966. Sprayed with ioxynil/mecoprop (Actril C at 5 pints in 40 gals): May 10. Combine harvested: Sept 3.

Oats: Seed combine drilled at 160 lb: Mar 7, 1966. 'Nitro-Chalk' applied: Mar 10. Sprayed with ioxynil/mecoprop (Actril C at 5 pints in 40 gals): May 10. Combine harvested: Sept 3.

Spring beans: Seed placement drilled at 200 lb: Mar 8, 1966. (Rows spaced at 21 in). Sprayed with demeton-s-methyl (Metasystox at 12 fluid oz in 37 gals): June 14. Combine harvested: Sept 16.

- NOTES: (1) Yields were taken for winter and spring wheat only.
(2) Estimates were made throughout the growing season of the incidence of take-all (*Ophiobolus graminis*) and eyespot (*Cercospora herpotrichoides*).
(3) For previous years' results see 'Results' 63/C/10, 64/C/9 and 65/C/9.

66/c/7.2

SUMMARY OF RESULTS

GRAIN

Crop	Treatments				Mean
	W	Be	O	W	
1963	W	Be	O	W	
1964	Be	O	W	W	
1965	O	W	W	W	
WINTER WHEAT					
	41.8	41.5	25.5	31.6	35.1
SPRING WHEAT					
	44.8	37.9	35.3	37.1	38.8

Mean D.M. %: Winter wheat: 83.3
 Spring wheat: 75.4