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Numerical Results of the Field Experiments 1968

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68/DA/2 Cultivations and Bulb Fly - W. Wheat

Rothamsted Research

Rothamsted Research (1970) *68/DA/2 Cultivations and Bulb Fly - W. Wheat* ; Numerical Results Of The Field Experiments 1968, pp 293 - 294 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/Da/2.1

WINTER WHEAT

(FW 101)

Cultivations and bulb fly (*Leptohylemyia coarctata*) - Stackyard 1968.

Design: 4 randomised blocks of 3 plots.

Area of each plot: 0.0362. Area harvested: 0.0129.

Treatments: Tine cultivation, no ploughing (C), normal ploughing (P), scraped and ploughed (SP). All plots received a shallow rotary cultivation before drilling.

NOTE: The SP treatment was done by a special plough; the top 1-2 inches of soil were scraped into the open furrow just ahead of the plough.

Basal applications: 280 lb (6:15:15) combined drilled. 0.84 cwt N as 'Nitro-Chalk'. Ground chalk at 50 cwt. Weedkillers: Diquat (Reglone at 4 pints in 30 gals), paraquat at 0.75 lb ion in 32 gals, ioxynil/mecoprop (Actril C at 6 pints in 20 gals). Seed dressing: Organo-mercury fungicide only.

Cultivations, etc.: Rotary cultivated: 5 June, 1967. Diquat applied: 29 Aug. Paraquat applied: 3 Oct. Ground chalk applied: 7 Oct. P treatment ploughed, SP treatment scraped and ploughed: 11 Oct. C treatment deep-tine cultivated: 13 Oct. All plots rotary cultivated and spring-tine cultivated, seed drilled at 180lb: 21 Feb, 1968. 'Nitro-Chalk' applied: 11 Apr. Ioxynil/mecoprop applied: 15 May. Combine harvested: 8 Sept. Variety: Cappelle. Previous crops: Winter wheat 1966, fallow 1967.

NOTE: Samples were taken for wheat bulb fly eggs in February 1968.

Standard error per plot.

Grain: 2.46 or 9.4% (6 d.f.)

68/Da/2.2

SUMMARY OF RESULTS

| GRAIN | | | |
|-------|-----------------|------|------|
| C | P | SP | Mean |
| 25.9 | 24.9 (±1.23) | 28.0 | 26.2 |

Mean D.M. %: 79.5