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Numerical Results of the Field Experiments 1969

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69/R/W/4 - Cultivations & Bulb Fly -

Rothamsted Research

Rothamsted Research (1970) *69/R/W/4 - Cultivations & Bulb Fly -* ; Numerical Results Of The Field Experiments 1969, pp 243 - 244 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

WINTER WHEAT

(69/R/W/4)

Cultivations and bulb fly (*Leptohylemyia coarctata*) -
Stackyard 1969.

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).

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

Basal applications: 280 lb (6:15:15) combine drilled, 0.84
cwt N as 'Nitro-Chalk'. Weedkillers: Paraquat at 0.5 lb
ion in 25 gals. Ioxynil at 9 oz and mecoprop at 27 oz in
20 gals, and again at 4.5 oz and 13.5 oz respectively, as
the first application was spoiled by rain.

Cultivations, etc.: Paraquat applied: 11 Oct, 1968. P treatment
ploughed: 18 Oct. P and C treatment spring tine cultivated:
21 Oct. P treatment rotary cultivated: 22 Oct. P treatment
rotary cultivated second time, seed drilled at 180 lb (P and
C plots only): 23 Oct. SP treatment scraped and ploughed:
16 Nov. SP treatment power-harrowed and seed drilled at 180 lb:
16 Feb 1969. All plots rolled: 18 Apr. 'Nitro-Chalk' applied:
19 Apr. Ioxynil/mecoprop applied: 12 and 13 May. Combine
harvested: 30 Aug. Variety: Cappelle. Previous crops: Winter
wheat 1967, fallow 1968.

NOTES: 1. Samples were taken for eggs in February 1969.
2. The special plough needed for the SP treatment
was not available when the P plots were ploughed.
The SP plots were ploughed in November and the
subsequent weather prevented sowing until February.
This sowing was too late to be affected by Wheat Bulb fly.

Standard error per plot.

Grain, cwt: 1.35 or 2.8% (6 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

| C | P | SP | Mean |
|------|---------|------|------|
| | (±0.68) | | |
| 49.0 | 49.1 | 44.4 | 47.5 |

Mean D.M.%: 81.2