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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