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70/R/WW/5 Winter Wheat Cultivations and Bulb Fly

Rothamsted Research

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WINTER WHEAT

(70/R/WW/5)

Cultivations and bulb fly (*Leptohylemyia coarctata*) -
Stackyard 1970.

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
2-3 inches of soil being scraped into the open furrow
just ahead of the plough.

Basal applications: 280 lb (8:20:16) combine drilled, 0.84 cwt N
as 'Nitro-Chalk' top dressed in spring. Weedkiller: Ioxynil
at 9 oz and mecoprop at 27 oz in 20 gals.

Cultivations, etc.: Subsoiled 28 inches apart, 18 inches deep:
4 Aug, 1969. C plots deep-tine cultivated, P plots
ploughed, SP plots scraped and ploughed: 11 Sept. All
plots rotary cultivated: 11 Nov. Seed combine drilled at
180 lb: 14 Nov. 'Nitro-Chalk' applied: 28 Apr, 1970.
Weedkiller applied: 6 May. Combine harvested: 27 Aug.
Variety: Cappelle. Previous crops: Winter wheat 1968,
Fallow 1969.

NOTE: Samples were taken for bulb fly eggs in February 1970.

Standard error per plot.

Grain, cwt: 3.15 or 10.6% (6 d.f.)

70/R/VV/5

SUMMARY OF RESULTS

GRAIN: CWT

C	P	SP	Mean
	(±1.58)		
24.9	31.8	32.4	29.7

Mean D.M. %: 83.6