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Yields of the Field Experiments 1974

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74/R/CS/135 Direct Drilling and Diseases - Winter Barley

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74/R/CS/135

DIRECT DRILLING AND DISEASES

Object: To study the effects of direct drilling on pathogens and yield of winter barley - Meadow.

Sponsor: R.D. Prew.

The first year, winter barley.

Design: 2 randomised blocks of 3 plots.

Whole plot dimensions: 26.7 x 30.5. Area harvested: 0.00929.

Treatments: Cultivations:

CULTIVIN

Ploughed, spring-tine cultivated, drilled (P)	Plough
Chisel ploughed twice, disced, drilled (C)	Chisel
Paraquat to stubble, direct drilled (D)	Direct

NOTE: Paraquat was applied at 0.56 kg ion in 220 l.

Basal applications: Manures: (10:24:24) at 250 kg combine drilled. 'Nitro-Chalk' at 300 kg. Weedkiller: Mecoprop ('Compitox Extra' at 4.2 l in 220 l).

Seed: Maris Otter sown at 170 kg, dressed fungicide only.

Cultivations, etc.: - P plots ploughed, C plots deep-tine cultivated: 6 Sept, 1973. D plots sprayed with paraquat: 18 Sept. C plots deep-tine cultivated: 10 Oct. P plots spring-tine cultivated, C plots disced and all plots sown: 11 Oct. N applied: 17 Apr, 1974. Mecoprop applied: 1 May. Combine harvested: 30 Aug. Previous crops: Barley 1972 and 1973.

NOTE: Root diseases were assessed in spring and summer and foliar diseases throughout the year.

74/R/CS/135

TABLE OF MEANS

GRAIN: TONNES/HECTARE

CULTIVIN

Plough	Chisel	Direct	Mean
5.05	5.36	4.33	4.91

Mean D.M. % 85.4