Yields of the Field Experiments 1953

53/CA/8 Wheat - Methods of Harvesting - Rothamsted

Rothamsted Research

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WHEAT

Methods of harvesting and levels of N - Sawyers III 1953.

System of replication: 4 randomized blocks of 9 plots each.

Area of each plot: 0.0200 acre.   Area harvested: Binder - full area, combine - 0.0129 acre.

Treatments: All combinations of:-
  N: None; 0.4; 0.8 cwt N per acre applied as nitrochalk.
  Method of harvesting: Binder; Combine (Massey Harris 726).

Note: The experiment was originally designed to test also the N.I.A.E. combine (i.e. 3 methods in all) but this was not available.   The 3 plots per block (1 at each level of N) which should have been harvested by the N.I.A.E. combine were harvested by Binder in 2 of the blocks, and by the Massey Harris 726 in the other 2 blocks: each treatment combination was therefore replicated 6 times.

Basal dressing: None.

Cultivations, etc.: Cultivated twice: Nov 7, 1952.   Seed drilled at 3 bushels per acre: Nov 9.   Nitrochalk applied: May 20, 1953.   Sprayed with M.C.P.A.: May 21.   Harvested: Binder plots - Sept 3.   Combine plots - Sept 10.   Variety: Cappelle.   Previous crop: Potatoes.

Standard error per plot:
  Grain: 2.67 cwt per acre or 8.9% (27 d.f.)

Summary of Results

Grain: cwt per acre

Method of Harvesting	N: cwt per acre			Mean
	None	0.4	0.8	
	(1) and (2)			
Binder	26.3	30.4	33.4	30.0
Combine	25.9	29.9	35.2	30.3
Mean (±0.77)	26.1	30.2	34.3	30.2
Difference (±1.57)	-0.4	-0.5	+1.8	+0.3 (±0.94)

(1) ±1.09 for use in horizontal comparisons only.
(2) ±1.11 for use in diagonal comparisons only.