

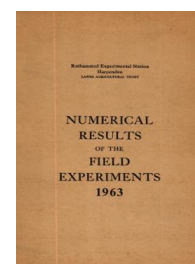
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Yields of the Field Experiments 1963

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63/R/RW201/DA/3 Wheat - Varieties and N

Rothamsted Research

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63/De/3.1

WHEAT

(RW 201)

Varieties and nitrogen - Long Hoos V 1963.

Design: 4 randomised blocks of 24 plots each, blocks being divided into 2 sub-blocks each, one of 15 winter wheat and one of 9 spring wheat plots.

Area of each plot: 0.0193 acres. Area harvested: 0.0129 acres.

Treatments: All combinations of:-

Varieties: Winter wheat:- Cappelle (Ca), Champlain (Ch),
Prestige (Pr), Squarehead's Master (Sq).
Spring wheat:- Jufy I (Ju), Opal (Op), Prestige (Pr).
Nitrogen: None (to winter wheat except Champlain), 0.5, 0.75,
1.0 cwt N per acre as 'Nitro-Chalk'.

Basal dresssiinnngg: 2.5 cwt per acre compound fertiliser (20% $P_{2}O_{5}$,
20% $K_{2}O$) combine drilled.

Cultivations, etc.: Ploughed: Nov 13, 1962. Winter wheat drilled at 2.75 bushels per acre: Dec 17. Spring wheat drilled at 3 bushels per acre: Apr 19, 1963. 'Nitro-Chalk' applied: Spring wheat - Apr 23, winter wheat - Apr 27. Sprayed with mecoprop/2,4-D: Winter wheat at 7 pints in 40 gallons per acre - May 16, spring wheat at 6 pints in 40 gallons per acre - May 24. Combine harvested: Winter wheat - Sept 10, spring wheat - Sept 13. Previous crops: Spring wheat 1961, potatoes 1962.

Standard errors per plot. Grain (at 85% dry matter):

Winter wheat 3.72 cwt per acre or 11.0% (39 d.f.)
Spring wheat 1.33 cwt per acre or 3.6% (24 d.f.)

63/Da/3.2

Summary of ResultsGrain (at 85% dry matter): cwt per acreWinter wheat

N: cwt per acre	Variety				Mean
	Ca	Ch	Pr	Sq	
	(±1.86)				(±0.93)
None	25.7		21.0	24.5	23.7 (1)
0.50	34.7	36.3	34.9	27.1	33.2
0.75	39.5	42.1	39.9	29.5	37.7
1.00	39.9	44.7	41.3	28.8	38.7
Mean (excl. none) (±1.07)	38.0	41.0	38.7	28.4	36.5*

(1) (±1.07)

*Mean of plots receiving N. General mean 33.9

Mean dry matter % as harvested: 79.2

Spring wheat

N: cwt per acre	Variety			Mean
	Ju	Op	Pr	
	(±0.66)			(±0.38)
0.50	37.6	37.7	30.8	35.3
0.75	38.2	41.1	31.6	37.0
1.00	40.3	42.7	31.4	38.1
Mean (±0.38)	38.7	40.5	31.2	36.8

Mean dry matter % as harvested: 73.7

VarietiesWinter wheatCa = Cappelle, Ch = Champlain, Pr = Prestige,
Sq = Squarehead's Master.Spring wheat

Ju = July I, Op = Opal, Pr = Prestige