ROTHAMSTED RESEARCH

Yields of the Field Experiments 1962

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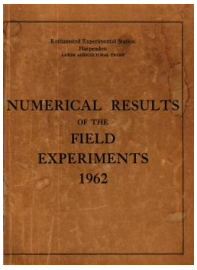

62/R/C/7 Intensive Barley Growing - Cereals and Beans

Rothamsted Research

Rothamsted Research (1963) *62/R/C/7 Intensive Barley Growing - Cereals and Beans ;* Yields Of The Field Experiments 1962, pp 113 - 114 **- DOI: https://doi.org/10.23637/ERADOC-1-164**

62/C/7.1

INTENSIVE BARLEY GROWING EXPERIMENT

Little Knott I - 1962, the second year

For treatments etc., see "The Numerical Results of the Field Experiments" 61/C/8.

Area of each plot (acres): 0.0212. Area harvested: 0.0140.

Cultivations, etc.: Ploughed: Sept 16, 1961.

Spring beans: Seed placement drilled at 200 lb per acre: Feb 21, 1962. Combine harvested: Sept 21. Variety: Tick 30B.

Oats: 'Nitro-Chalk' applied: Feb 23, 1962. Seed combine drilled at 4 bushels per acre: Mar 2. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 24. Combine harvested: Aug 25. Variety: Condor.

Spring wheat: 'Nitro-Chalk' applied: Feb 23, 1962. Seed combine drilled at 3 bushels per acre: Mar 2. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 24. Combine harvested: Sept 13. Variety: Jufy I.

Barley: 'Nitro-Chalk' applied, seed combine drilled at $2\frac{1}{2}$ bushels per acre: Feb 22, 1962. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 24. Combine harvested: Aug 27. Variety: Proctor.

Winter wheat: Seed combine drilled at $2\frac{1}{2}$ bushels per acre: Oct 11, 1961. 'Nitro-Chalk' applied: Feb 23, 1962. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: Apr 24. Combine harvested: Sept 3. Variety: Cappelle.

Note: (1) One plot (non-continuous spring wheat preceding beans), which should have received 0.45 cwt N per acre, received 0.9 by mistake.
(2) Yields were only taken for sequences 3, 6, 7, 8, 9 and 10

Standard errors per plot. Grain (at 85% dry matter):
Winter wheat (9 and 10): 4.53 cwt per acre or 11.9% (7 d.f.)
Spring wheat (3,6 and 8): 2.44 cwt per acre or 8.7% (14 d.f.)

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Summary of Results

Grain (at 85% dry matter): cwt per acre

Winter wheat (9 and 10)

N: cwt per acre

Crop in 1961	None	0.3	0.6	0.9	Mean
		(±3.20)			(±1.60)
Spring wheat	23.9	24.2	35.6	39.2	30.7
Beans	39.0	45.5	46.1	51.3	45.5
Mean (±2.26)	31.4	34.9	40.8	45.2	38.0

Mean dry matter % as harvested: 83.6

Spring wheat (3, 6, 8)

Previous crop	Spring wheat					Oats	
N: cwt per acre	None	0.3	0.45*+	0.6	0.9	0.45*	Mean
	19.3	21.7	26.2	29.7	26.6	33.2	27.9
	(±1.72)		(±0.86)	(±1.72)		(±0.86)	

Mean dry matter % as harvested: 73.8

Barley 7

N: cwt per acre

None	0.3	0.6	0.9	Mean
33.0	42.9	42.9	46.8	41.4

Mean dry matter % as harvested: 82.6

*mean of 8 - others mean of 2

+includes 1 estimated value

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