

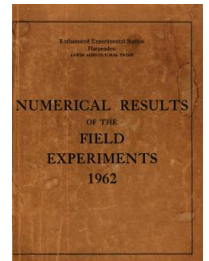
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Yields of the Field Experiments 1962

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62/W/DA/3 Winter Wheat - Levels and Times of N

Rothamsted Research

Rothamsted Research (1963) *62/W/DA/3 Winter Wheat - Levels and Times of N* ; Yields Of The Field Experiments 1962, pp 126 - 127 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/Da/3.1

WINTER WHEAT

Levels and times of application of nitrogen - Woburn Stackyard Series B 1962.

Design: 4 randomised blocks of 18 plots each.

Area of each plot: 0.0186 acres. Area harvested: 0.0133 acres.

Treatments: None (2 plots per block) and all combinations of:-

Nitrogen: 0.5; 1.0; 1.5; 2.0 cwt N per acre as 'Nitro-Chalk'.

Times of application: February (F); April (A); May (M).

In addition 1.0; 2.0 cwt N per acre, each in equal divided dressings FM; FAM.

Basal dressing: 240 lb compound fertiliser (6% N, 15% P₂O₅, 15% K₂O) per acre combine drilled.

Cultivations, etc.: Ploughed: Sept 11, 1961. Seed drilled at 2½ bushels per acre: Oct 17. 'Nitro-Chalk' applied: F - Mar 1, 1962; A - Apr 9; M - May 9. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: Apr 13. Combine harvested: Aug 31. Variety: Cappelle. Previous crops: Various crops (6 Course Rotation experiment) 1960; spring beans 1961.

Standard error per plot.

Grain (at 85% dry matter): 4.85 cwt per acre or 14.7% (52 d.f.)

Summary of Results

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

N: cwt per acre (in addition to basal)

	0.5	1.0	1.5	2.0	Mean
Time of application	(±2.42)				(±1.21)
February	31.7	33.9	37.3	34.8	34.4
April	28.5	40.3	37.4	40.6	36.7
May	29.6	35.7	38.0	34.2	34.4
Mean (±1.40)	29.9	36.6	37.6	36.5	35.2
Divided application	(±2.42)				
February & May	-	37.4	-	37.2	-
February, April & May	-	36.7	-	34.4	-

Mean yield with basal dressing only: 13.3 (±1.71)

General mean: 33.0

Mean dry matter % as harvested: 82.7

62/Da/3.2

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

N: cwt per acre (in addition to basal)

	0.5	1.0	1.5	2.0	Mean
Time of application					
February	24.5	27.6	33.7	29.3	28.8
April	21.6	31.6	28.9	32.2	28.6
May	19.6	21.8	23.4	20.8	21.4
Mean	21.9	27.0	28.7	27.4	26.2
Divided application					
February & May	-	28.0	-	30.7	-
February, April & May	-	27.1	-	25.1	-

Mean yield with basal dressing only: 9.2
 General mean: 24.7
 Mean dry matter % as harvested: 87.1