

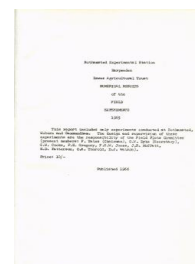
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1965

[Full Table of Content](#)



65/R/C/29 and 65/W/C29 Formalin and N - 2 Sites - Spring Wheat (Br, Bs, Wbm)

Rothamsted Research

Rothamsted Research (1966) *65/R/C/29 and 65/W/C29 Formalin and N - 2 Sites - Spring Wheat (Br, Bs, Wbm)* ; Yields Of The Field Experiments 1965, pp 223 - 225 - DOI:

<https://doi.org/10.23637/ERADOC-1-159>

65/C/29.1

SPRING WHEAT

(BR, BS and WBM)

Effects of formalin and nitrogen, Rothamsted (R) Pastures (pathogen free) and Little Knott I (pathogen infected), Woburn (W) Horsepool (pathogen free) 1965.

Design: Pastures (R) and Horsepool (W): 2 randomised blocks of 8 plots.

Little Knott I (R): 4 randomised blocks of 8 plots.

Area of each plot: 0.0032. Area harvested: 0.0011.

Treatments: All combinations of:-

Formalin: None (0), sprayed with a 38% solution of formaldehyde at 266 gals in 3700 gals (F).

N: None (N0), 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt as 'Nitro-Chalk'.

Basal applications: 280 lb (0:20:20). Weedkiller (Rothamsted only): Dichlorprop/MCPA (Cornox RK Extra at 6 pints in 60 gals).

Cultivations, etc.:-

Pastures (R): Ploughed: Dec 1, 1964. Formalin and PK basal compound applied: Feb 25, 1965. 'Nitro-Chalk' applied (first half dressing), seed sown at 180 lb: Mar 31. 'Nitro-Chalk' applied (2nd half dressing): May 17. Sprayed: May 20. Harvested: Sept 15. Variety: Opal. Previous crops: Grass 1963, spring wheat 1964.

Little Knott I (R): Ploughed: Oct 13, 1964. Chisel ploughed: Dec 23. Formalin and PK basal compound applied: Feb 25, 1965. 'Nitro-Chalk' applied (first half dressing), seed sown at 180 lb: Mar 31. 'Nitro-Chalk' applied (2nd half dressing): May 17. Sprayed: May 20. Harvested: Sept 6. Variety: Opal. Previous crops: Barley 1963 and 1964.

Horsepool (W): Chisel ploughed: Nov 2, 1964. Formalin applied: Dec 22. PK basal compound applied: Feb 10, 1965. Seed sown at 180 lb, 'Nitro-Chalk' (first half dressing) applied: Mar 15. 'Nitro-Chalk' (2nd half dressing) applied: May 14. Plots abandoned because of severe lodging and damage by sparrows, no yields taken: Aug 26. Variety: Opal. Previous crops: Winter wheat 1963, potatoes 1964.

NOTE: Soil samples were taken for determination of mineralisable N and pH. On Horsepool (W) green crop samples were taken for yield and N determination. Samples were taken at harvest for N determination.

Standard errors per plot. Grain:

Pastures (pathogen free) (R): 2.34 or 8.5% (7 d.f.)

Little Knott I (pathogen infected) (R): 2.43 or 8.6% (21 d.f.)

65/c/29.2

SUMMARY OF RESULTS

GRAIN

	NO	N1	N2	N3	Mean
PASTURES (R)					
	(±1.65)				(±0.83)
O	33.6	32.7	24.1	18.5	27.2
F	35.9	28.5	25.1	21.7	27.8
Mean (±1.17)	34.7	30.6	24.6	20.1	27.5
LITTLE KNOTT (R)					
	(±1.21)				(±0.61)
O	17.0	28.3	26.6	26.2	24.5
F	23.9	34.9	35.4	32.5	31.7
Mean (±0.86)	20.4	31.6	31.0	29.4	28.1

Mean D.M. %: Pastures (R): 77.1
 Little Knott (R): 82.3

65/C/29.3

STRAW					
	NO	N1	N2	N3	Mean
PASTURES (R)					
O	50.0	61.2	56.6	52.8	55.1
F	54.1	64.3	59.0	6.0	58.3
Mean	52.1	62.8	57.8	54.4	56.7
LITTLE KNOTT (R)					
O	27.0	46.8	45.9	47.7	41.8
F	34.1	52.5	56.8	55.4	49.7
Mean	30.5	49.7	51.3	51.5	45.8

Mean D.M. %: Pastures (R): 52.1
 Little Knott (R): 82.5