

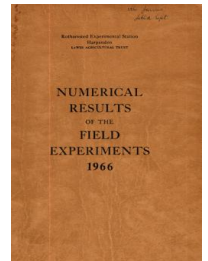
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1966

[Full Table of Content](#)



66/R/BR/C/22 and 66/R/BS/C/22 Formalin and N - 2 Sites - Spring Wheat

Rothamsted Research

Rothamsted Research (1967) *66/R/BR/C/22 and 66/R/BS/C/22 Formalin and N - 2 Sites - Spring Wheat* ; Yields Of The Field Experiments 1966, pp 201 - 205 - **DOI:**
<https://doi.org/10.23637/ERADOC-1-158>

66/C/22.1

SPRING WHEAT

(BR, BS)

Effects of formalin and nitrogen, Pastures (few pathogens), and Little Knott I (many pathogens) 1966, the second year.

Design: Pastures: 2 blocks of 8 plots split into 2.
Little Knott I: 4 blocks of 8 plots.

Area of each plot: 0.0032. Area harvested: Pastures - 0.0012,
Little Knott I - 0.0013.

Treatments:

Pastures: All combinations of:-

- Whole plots: 1. Formalin (applied 1965): None (O), sprayed with a 38% solution of formaldehyde at 266 gals in 3700 gals (R).
2. N: None (NO), 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt as 'Nitro-Chalk' applied in 1965 and 1966.
Sub plots: 3. Formalin (applied 1966): None (O), sprayed with a 38% solution of formaldehyde at 266 gals in 3700 gals (F).

Little Knott I: All combinations of:-

1. Formalin (applied 1965): None (O), sprayed with a 38% solution of formaldehyde at 266 gals in 3700 gals (R).
2. Formalin as 1965, applied 1966: (O) and (F).
3. N (applied 1965 and 1966): None (NO), 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt as 'Nitro-Chalk'.

Basal applications: 280 lb (0:20:20). Weedkillers:

Pastures: Ioxynil/mecoprop (Actril P at 4 pints in 40 gals).

Little Knott I: Dichlorprop/MCPA (Cornox RK Extra at 6 pints in 40 gals).

Cultivations, etc.:

Pastures: Ploughed: Nov 4, 1965. Formalin applied: Feb 18, 1966. PK basal compound and 'Nitro-Chalk' (first half dressing) applied, rotary cultivated, seed sown at 180 lb: Mar 14. 'Nitro-Chalk' applied (2nd half dressing): May 6. Weedkiller applied: May 12. Harvested: Aug 26. Variety: Klokka.

Little Knott I: Ploughed: Oct 25, 1965. Formalin applied: Feb 18, 1966. PK basal compound, 'Nitro-Chalk' (first half dressing) applied, rotary cultivated, seed drilled at 180 lb: Mar 14. 'Nitro-Chalk' applied (2nd half dressing): May 6. Weedkiller applied: May 13. Harvested: Aug 26. Variety: Klokka.

NOTES: (1) Samples of grain and straw were taken at harvest for N percentage determinations.

(2) For previous year's results see 'Results' 65/C/29.

66/c/22.2

Standard errors per plot. Dry matter:

Pastures (R): Whole plot: 2.31 or 6.3% (7 d.f.)

Sub plot: 3.44 or 9.4% (8 d.f.)

Little Knott I (R): 3.71 or 13.6% (14 d.f.)

SUMMARY OF RESULTS

PASTURES

GRAIN

	NO	N1	N2	N3	Mean
Mean (± 1.15)	32.7	39.3	39.1	34.7	36.5
		(± 1.63)			(± 0.82)
O	29.5	39.5	39.3	36.7	36.3
R	35.8	39.1	38.9	32.8	36.6
		(1) and (2)			(± 0.86)
O	28.4	39.2	39.2	36.0	35.7
F	36.9	39.5	39.0	33.4	37.2
	O	R			
		(3) and (4)			
O	35.7	35.7			
F	36.8	37.6			

Mean D.M. %: 80.2

- (1) (± 1.67) (3) (± 1.18) For use in horizontal and diagonal comparisons
 (2) (± 1.72) (4) (± 1.22) For use in vertical and interaction comparisons

66/C/22.3

PASTURES					
STRAW					
	NO	N1	N2	N3	Mean
Mean	42.9	61.1	61.5	61.1	56.6
O	41.0	59.4	61.3	63.1	56.2
R	44.8	62.7	61.7	59.1	57.1
O	33.9	55.1	57.4	56.8	50.8
F	51.9	67.0	65.6	65.4	62.5
	O	R			
O	50.8	50.8			
F	61.6	63.4			

Mean D.M. %: 63.8

66/C/22.4

LITTLE KNOTT I

GRAIN

	NO	N1	N2	N3	Mean
Mean (± 1.31)	22.0	26.8	30.1	30.0	27.3
		(± 1.86)			(± 0.93)
O	23.8	27.6	32.7	30.2	28.6
R	20.3	26.1	27.5	29.9	25.9
O	16.2	24.0	29.2	27.0	24.1
F	27.9	29.7	31.1	33.1	30.4
	O	R			
	(± 1.31)				
O	26.5	21.6			
F	30.6	30.2			

Mean D.M. %: 81.3

66/C/22.5

LITTLE KNOTT I

STRAW

	NO	N1	N2	N3	Mean
Mean	26.0	43.0	49.6	52.6	42.8
O	27.7	45.3	52.1	54.0	44.8
R	24.4	40.6	47.2	51.2	40.8
O	18.3	32.5	42.2	43.6	34.1
F	33.8	53.4	57.1	61.6	51.5
	O	R			
O	36.7	31.6			
F	52.9	50.1			

Mean D.M. %: 72.0