

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

Numerical Results of the Field Experiments 1968

[Full Table of Content](#)



68/C/21 Effect of Potato Haulm on Winter Wheat

Rothamsted Research

Rothamsted Research (1970) *68/C/21 Effect of Potato Haulm on Winter Wheat ; Numerical Results Of The Field Experiments 1968*, pp 199 - 202 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/C/21.2

SUMMARY OF RESULTS

GRAIN

PASTURES (R)

	R0	R2	R4	R6	N0	N1	N2	N3	Mean
	(±0.69)				(1) and (2)				(±0.34)
B	41.2	43.3	43.6	42.5	38.0	43.5	45.8	43.4	42.7
C	42.1	40.3	43.7	44.2	36.5	45.1	45.1	43.7	42.6
					(3) and (4)				(±0.49)
			R0		32.8	43.9	46.3	43.6	41.6
			R2		34.0	42.6	46.2	44.4	41.8
			R4		39.2	46.4	45.1	43.8	43.6
			R6		42.8	44.2	44.2	42.3	43.4
	Mean (±0.54)				37.2	44.3	45.5	43.5	42.6

(1) (±0.75) (3) (±1.06) For use in vertical and diagonal comparisons
 (2) (±0.76) (4) (±1.08) For use in horizontal and interaction comparisons

Mean D.M. %: 82.6

68/c/21.1

EFFECT OF POTATO HAULM ON WINTER WHEAT

(CK and WCN)

Rothamsted (R) Pastures and Woburn (W) Broadmead II 1968 the second year (winter wheat).

Design: 4 randomised blocks of 8 plots, split for N with split plot confounding.

Area of each sub plot:

Pastures (R): 0.0076. Area harvested: 0.0050.
Broadmead II (W): 0.0074. Area harvested: 0.0049.

Treatments: All combinations of:-

- Whole plots: 1. Nitrogen to potatoes 1967: None (R0), 0.66 (R2) 1.32 (R4), 2.0 (R6) as 'Nitro-Chalk'.
2. Haulm disposal: Haulm burnt off with acid (B), haulm cut and removed (C).
Half plots: 3. Nitrogen to wheat 1968: None (N0), 0.33 (N1), 0.66 (N2), 1.0 cwt (N3) as 'Nitro-Chalk'.

Basal applications: Pastures (R): 340 lb (0:14:28) combine drilled, 5 tons ground chalk. Weedkiller: Ioxynil/mecoprop (Actril C at 6 pints in 20 gals).

Broadmead II (W): 300 lb (0:14:28) combine drilled. Weedkiller: Ioxynil/mecoprop (Actril C at 6 pints in 25 gals).

Cultivations, etc.:

Pastures (R): Ploughed, haulm ploughed in on B plots: 22 Sept, 1967.

Chalk applied: 10 Oct. Seed drilled at 170 lb: 24 Oct.

'Nitro-Chalk' applied: half - 25 Mar, 1968, half - 26 Apr.

Weedkiller applied: 26 Apr. Combine harvested: 24 Aug.

Variety: Cappelle.

Broadmead II (W): Haulm ploughed in on B plots: 19 Sept, 1967.

Disced three times: 7 Oct. Seed drilled at 180 lb: 13 Oct.

'Nitro-Chalk' applied: half - 26 Mar, 1968, half - 1 May.

Weedkiller applied: 25 Apr. Combine harvested: 22 Aug.

Variety: Cappelle.

NOTE: For the previous year's results see 'Results' 67/C/28.

Standard errors per plot.

Grain: Pastures (R): Whole plot: 1.38 or 3.2% (14 d.f.)
Sub plot: 2.16 or 5.1% (16 d.f.)
Broadmead (W): Whole plot: 3.15 or 9.7% (14 d.f.)
Sub plot: 1.84 or 5.6% (16 d.f.)

TABLE 1

SUMMARY OF DATA

Year	Q1	Q2	Q3	Q4	Total
2010	100	100	100	100	400
2011	100	100	100	100	400
2012	100	100	100	100	400
2013	100	100	100	100	400
2014	100	100	100	100	400
2015	100	100	100	100	400
2016	100	100	100	100	400
2017	100	100	100	100	400
2018	100	100	100	100	400
2019	100	100	100	100	400
2020	100	100	100	100	400

The following table shows the summary of data for the years 2010 to 2020. The data is presented in a table format with columns for Year, Q1, Q2, Q3, Q4, and Total. The values for each quarter are consistently 100, and the total for each year is 400.

Year	Q1	Q2	Q3	Q4	Total
2010	100	100	100	100	400
2011	100	100	100	100	400
2012	100	100	100	100	400
2013	100	100	100	100	400
2014	100	100	100	100	400
2015	100	100	100	100	400
2016	100	100	100	100	400
2017	100	100	100	100	400
2018	100	100	100	100	400
2019	100	100	100	100	400
2020	100	100	100	100	400

The following table shows the summary of data for the years 2010 to 2020. The data is presented in a table format with columns for Year, Q1, Q2, Q3, Q4, and Total. The values for each quarter are consistently 100, and the total for each year is 400.

68/c/20.2

SUMMARY OF RESULTS

		GRAIN				
		SO	SI	DO	DD	Mean
		(±1.75)		(1) and (2)		(±1.24)
S		29.0	30.6	27.1	32.5	29.8
M		29.5	27.1	28.6	28.0	28.3
				(1) and (2)		(±1.24)
SO				27.7	30.8	29.2
SI				27.9	29.8	28.9
Mean (±1.74)				27.8	30.3	29.0

(1) (±2.13) For use in vertical and diagonal comparisons only

(2) (±2.46) For use in horizontal and interaction comparisons only

		S		M	
		DO	DD	DO	DD
		(3) and (4)			
SO		25.3	32.6	30.1	28.9
SI		28.8	32.4	27.1	27.2

(3) (±3.01) For use in comparisons involving different whole plot combinations

(4) (±3.47) For use in interaction comparison and comparisons within the same whole plot combination.

Mean D.M. %: 85.6