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## Numerical Results of the Field Experiments 1968

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### 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	150	200	250	700
2011	120	180	230	280	810
2012	140	200	250	300	890
2013	160	220	270	320	970
2014	180	240	290	340	1050

The following table shows the data for the years 2010 through 2014. The data is presented in a table format with columns for Year, Q1, Q2, Q3, Q4, and Total.

Year	Q1	Q2	Q3	Q4	Total
2010	100	150	200	250	700
2011	120	180	230	280	810
2012	140	200	250	300	890
2013	160	220	270	320	970
2014	180	240	290	340	1050

The data shows a consistent upward trend in the values for each quarter from 2010 to 2014. The total values for each year are 700, 810, 890, 970, and 1050 respectively.

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