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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 Results

Year	2010	2011	2012	2013	2014
100.1-1	12.5	13.2	14.1	15.0	16.0
2.1-2	1.5	1.8	2.1	2.4	2.7
3.1-3	1.2	1.4	1.6	1.8	2.0
4.1-4	1.0	1.1	1.2	1.3	1.4
5.1-5	0.8	0.9	1.0	1.1	1.2
6.1-6	0.6	0.7	0.8	0.9	1.0
7.1-7	0.4	0.5	0.6	0.7	0.8
8.1-8	0.3	0.4	0.5	0.6	0.7
9.1-9	0.2	0.3	0.4	0.5	0.6
10.1-10	0.1	0.2	0.3	0.4	0.5

The following table shows the results of the survey conducted in 2010-2014. The data is presented in a summary format, showing the number of respondents for each category.

Category	2010	2011	2012	2013	2014
100.1-1	12.5	13.2	14.1	15.0	16.0
2.1-2	1.5	1.8	2.1	2.4	2.7
3.1-3	1.2	1.4	1.6	1.8	2.0
4.1-4	1.0	1.1	1.2	1.3	1.4
5.1-5	0.8	0.9	1.0	1.1	1.2
6.1-6	0.6	0.7	0.8	0.9	1.0
7.1-7	0.4	0.5	0.6	0.7	0.8
8.1-8	0.3	0.4	0.5	0.6	0.7
9.1-9	0.2	0.3	0.4	0.5	0.6
10.1-10	0.1	0.2	0.3	0.4	0.5

The following table shows the results of the survey conducted in 2010-2014. The data is presented in a summary format, showing the number of respondents for each category.

68/c/20.2

SUMMARY OF RESULTS

	GRAIN				Mean
	SO	SI	DO	DD	
	(±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