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Numerical Results of the Field Experiments 1969

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69/R/CS/12 - Formalin & N (2 Sites) - Winter Wheat

Rothamsted Research

Rothamsted Research (1970) *69/R/CS/12 - Formalin & N (2 Sites) - Winter Wheat* ; Numerical Results Of The Field Experiments 1969, pp 140 - 142 - **DOI:**

<https://doi.org/10.23637/ERADOC-1-96>

WINTER WHEAT

(69/R/CS/12)

Effects of formalin and nitrogen, Pastures (pathogen free 1965) and Little Knott I (pathogen infected 1965) 1969, the fifth year. For design, treatments etc., and previous years' results see 'Results' 65/C/29, 66/C/22, 67/C/18 and 68/C/14.

Area of each plot: 0.0032. Area harvested: Little Knott I: 0.0021.
Pastures: 0.0010.

No formalin treatment was applied in 1969, residual effects only being measured. Nitrogen was applied as calcium nitrate as in 1968 and at the same rates.

Basal applications: Compound (0:20:20) at 280 lb on Pastures and at 168 lb on Little Knott I, combine drilled. Weedkiller: Ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1 pint in 20 gals).

Cultivations, etc.:

Pastures: Ploughed: 14 Oct, 1968. Seed drilled at 180 lb: 17 Oct. Calcium nitrate applied: 16 Apr, 1969. Weedkiller applied: 1 May. Combine harvested: 1 Sept. Variety: Cappelle.

Little Knott I: Ploughed: 20 Sept, 1968. Seed drilled at 180 lb: 15 Oct. Calcium nitrate applied: 16 Apr, 1969. Weedkiller applied: 1 May. combine harvested: 1 Sept. Variety: Cappelle.

NOTE: Samples were taken for estimation of take-all (*Ophiobolus graminis* and eyespot (*Cercospora herpotrichoides*) in spring and early and late summer.

Standard errors per plot.

Grain, cwt:	Little Knott I:	4.36 or 15.2% (6 d.f.)
	Pastures: Whole plot:	1.74 or 5.0% (5 d.f.)
	Sub plot:	4.24 or 12.2% (3 d.f.)
	Pooled:*	3.24 or 9.3% (8 d.f.)

* Used in calculating S.E.'s of means in Summary.

14.1

SUMMARY OF RESULTS

PASTURES (R)

GRAIN: CWT

	NO	N1	N2	N3	Mean
Mean (± 1.15)	18.0	37.2	42.8	41.4	34.9
		(± 1.62)			(± 0.81)
68 O	19.0	38.7	41.3	40.9	35.0
68 F	17.0	35.8	44.2	41.9	34.7
		(± 1.62)			(± 0.81)
67 O	16.8	38.0	42.8	42.9	35.1
67 F	19.2	36.5	42.7	40.0	34.6
		(± 1.62)			(± 0.81)
66 O	17.8	37.0	41.1	41.2	34.3
66 F	18.2	37.5	44.5	41.6	35.4
		(± 1.62)			(± 0.81)
65 O	16.6	35.9	40.1	43.1	33.9
65 F	19.4	38.6	45.5	39.8	35.8

Mean D.M. %: 82.8

LITTLE KNOTT I

GRAIN: CWT

	NO	N1	N2	N3	Mean
Mean (± 1.54)	14.4	30.7	32.8	36.8	28.7
		(± 2.18)			(± 1.09)
68 O	14.4	32.4	37.5	38.9	30.8
68 F	14.5	29.0	28.1	34.7	26.6
		(± 2.18)			(± 1.09)
67 O	13.9	29.8	31.3	33.5	27.1
67 F	15.0	31.6	34.3	40.1	30.3
		(± 2.18)			(± 1.09)
66 O	15.0	27.6	32.3	39.8	28.7
66 F	13.9	33.8	33.3	33.8	28.7
		(± 2.18)			(± 1.09)
65 O	13.3	31.1	33.0	32.6	27.5
65 F	15.6	30.3	32.6	41.0	29.9

Mean D.M. %: 81.6