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Numerical Results of the Field Experiments 1969

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69/R/CS/14 - Npy to Old Grass - Old Grass (Park Grass Plot 5 Microplots)

Rothamsted Research

Rothamsted Research (1970) *69/R/CS/14 - Npy to Old Grass - Old Grass (Park Grass Plot 5 Microplots)* ; Numerical Results Of The Field Experiments 1969, pp 145 - 153 - DOI:
<https://doi.org/10.23637/ERADOC-1-96>

NPK TO OLD GRASS

(69/R/CS/14)

Park Grass Old Plots 5/1 and 5/2, 1969, the fifth year

For details of treatments etc., and for previous years' results see 'Results' 65/C/22, 66/C/13, 67/C/9 and 68/C/7.

Area of each plot: 0.0045. Area harvested: 0.0021.

Treatments K1P2 and K6P2 were applied in 1965 only. In each season these plots received N at current rates.

Cultivations, etc.: P and K applied: 22 Nov, 1968. 'Nitro-Chalk' applied: 7 Mar, 1969. Cut 3 times: Plot 5/2: 19 May, 8 July, 13 Oct, plot 5/1: 30 May, 24 July, 13 Oct. 'Nitro-Chalk' applied after first 2 cuts.

Standard errors per plot. Dry matter, cwt:

Plot 5/1:	1st cut:	3.33	or	17.9%	(11 d.f.)
	2nd cut:	3.08	or	18.6%	(11 d.f.)
	3rd cut:	2.29	or	18.0%	(11 d.f.)
	Total of 3 cuts:	5.08	or	10.6%	(11 d.f.)
Plot 5/2:	1st cut:	1.92	or	8.4%	(11 d.f.)
	2nd cut:	4.02	or	15.3%	(11 d.f.)
	3rd cut:	2.78	or	13.2%	(11 d.f.)
	Total of 3 cuts:	4.29	or	6.1%	(11 d.f.)

SUMMARY OF RESULTS
 PLOT 5/1: DRY MATTER, CWT
 1ST CUT
 Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.18)	12.6	20.1	25.5	24.4	20.6
		(± 2.35)			(± 1.18)
K0	8.2	13.5	16.6	15.5	13.5
K2	15.9	27.6	29.2	26.0	24.7
K4	14.9	13.9	28.6	27.9	21.3
K8	11.4	25.3	27.7	28.1	23.1
		(± 1.66)			(± 0.83)
N1	12.2	22.3	20.6	19.7	18.7
N2	13.0	17.8	30.4	29.1	22.6
	K0	K2	K4	K8	
		(± 1.66)			
N1	14.4	21.8	19.6	19.0	
N2	12.5	27.5	23.1	27.3	

K1 and K6 plots

	K1P2*	K6P2*	Mean
		(± 2.35)	(± 1.66)
N1	10.8	10.9	10.8
N2	10.0	9.8	9.9
Mean (± 1.66)	10.4	10.3	10.4

* Applied 1965

General mean: 18.6

Mean D.M. %: 17.1

PLOT 5/1: DRY MATTER, CWT

2ND CUT

Excluding K1 and K6 plots

	PO	P1	P2	P4	Mean
Mean (± 1.09)	19.4	16.7	17.8	18.6	18.1
		(± 2.18)			(± 1.09)
K0	12.6	13.2	12.4	13.7	13.0
K2	19.8	17.5	19.6	17.0	18.5
K4	22.9	19.3	19.7	20.2	20.5
K8	22.1	16.7	19.4	23.7	20.5
		(± 1.54)			(± 0.77)
N1	17.7	14.5	14.7	16.6	15.9
N2	21.0	18.8	20.9	20.6	20.3
	K0	K2	K4	K8	
		(± 1.54)			
N1	13.1	16.3	17.5	16.7	
N2	12.9	20.7	23.6	24.3	
K1 and K6 plots					
	K1P2*	K6P2*	Mean		
		(± 2.18)	(± 1.54)		
N1	11.3	9.5	10.4		
N2	10.0	11.2	10.6		
Mean (± 1.54)	10.6	10.4	10.5		

* Applied 1965

General mean: 16.6

Mean D.M. %: 25.9

PLOT 5/1: DRY MATTER, CWT

3RD CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.81)	10.3	12.5	14.8	16.9	13.6
		(± 1.62)			(± 0.81)
K0	7.5	10.8	10.5	11.8	10.1
K2	10.9	13.1	15.3	15.8	13.8
K4	12.3	14.0	16.4	20.8	15.9
K8	10.4	12.3	16.9	19.1	14.7
		(± 1.15)			(± 0.57)
N1	8.8	11.5	12.2	15.8	12.1
N2	11.8	13.6	17.4	17.9	15.2
	K0	K2	K4	K8	
		(± 1.15)			
N1	9.7	11.9	13.6	12.9	
N2	10.5	15.6	18.2	16.4	

K1 and K6 plots

	K1P2*	K6P2*	Mean
		(± 1.62)	(± 1.15)
N1	7.5	8.5	8.0
N2	10.4	9.1	9.7
Mean (± 1.15)	8.9	8.8	8.9

* Applied 1965

General mean: 12.7

Mean D.M. %: 32.0

PLOT 5/1: DRY MATTER, CWT

TOTAL OF 3 CUTS

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.80)	42.2	49.3	58.1	59.9	52.4
		(± 3.59)			(± 1.80)
K0	28.3	37.5	39.5	41.1	36.6
K2	46.6	58.2	64.0	58.7	56.9
K4	50.1	47.2	64.8	68.9	57.8
K8	44.0	54.3	64.0	70.9	58.3
		(± 2.54)			(± 1.27)
N1	38.7	48.3	47.5	52.1	46.6
N2	45.8	50.3	68.7	67.7	58.1

	K0	K2	K4	K8
		(± 2.54)		
N1	37.2	50.0	50.7	48.7
N2	36.0	63.7	64.8	67.9

K1 and K6 plots

	K1P2*	K6P2*	Mean
	(± 3.59)		(± 2.54)
N1	29.6	28.9	29.2
N2	30.4	30.2	30.3
Mean (± 2.54)	30.0	29.6	29.8

* Applied 1965

General mean: 47.9

Mean D.M. %: 25.0

PLOT 5/2: DRY MATTER, CWT

1ST CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.68)	23.9	24.1	23.2	21.3	23.1
		(± 1.35)			(± 0.68)
K0	21.1	22.2	21.7	19.6	21.1
K2	25.0	26.1	24.8	22.3	24.5
K4	24.3	24.3	24.2	21.5	23.6
K8	25.2	23.7	22.1	21.7	23.2
		(± 0.96)			
N1	16.2	16.3	16.3	14.1	15.7
N2	31.6	31.9	30.1	28.4	30.5
	K0	K2	K4	K8	
		(± 0.96)			
N1	15.2	16.8	15.9	15.0	
N2	27.1	32.2	31.2	31.4	

K1 and K6 plots

	K1P2*	K6P2*	Mean
	(± 1.35)		(± 0.96)
N1	15.7	14.9	15.3
N2	27.9	28.5	28.2
Mean (± 0.96)	21.8	21.7	21.7

* Applied 1965

General mean: 22.8

Mean D.M. %: 15.8

PLOT 5/2: DRY MATTER, CWT

2ND CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.42)	27.3	25.4	24.4	26.4	25.9
		(± 2.84)			(± 1.42)
K0	24.9	25.0	27.4	22.5	25.0
K2	29.9	22.7	22.5	27.7	25.7
K4	26.2	25.3	24.4	28.6	26.1
K8	28.3	28.7	23.5	26.9	26.8
		(± 2.01)			
N1	25.0	20.6	21.6	21.5	22.2
N2	29.7	30.3	27.2	31.3	29.6
	K0	K2	K4	K8	
		(± 2.01)			
N1	20.6	21.3	23.2	23.6	
N2	29.3	30.1	29.1	30.1	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
		(± 2.84)	(± 2.01)		
N1	22.3	23.8	23.0		
N2	35.2	29.3	32.2		
Mean (± 2.01)	28.8	26.5	27.6		

* Applied 1965

General mean: 26.3

Mean D.M. %: 20.2

PLOT 5/2: DRY MATTER, CWT

3RD CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.98)	21.1	19.8	21.3	20.3	20.6
	(± 1.97)				(± 0.98)
K0	21.1	21.2	22.4	19.3	21.0
K2	20.3	20.3	21.5	20.3	20.6
K4	22.0	19.4	22.0	19.8	20.8
K8	20.9	18.5	19.5	21.8	20.2
	(± 1.39)				(± 0.70)
N1	19.3	17.1	18.1	15.1	17.4
N2	22.9	22.6	24.6	25.5	23.9
	K0	K2	K4	K8	
	(± 1.39)				
N1	17.2	19.1	17.2	16.1	
N2	24.8	22.1	24.4	24.3	
K1 and K6 plots					
	K1P2*	K6P2*	Mean		
	(± 1.97)		(± 1.39)		
N1	20.1	20.8	20.5		
N2	25.0	23.7	24.3		
Mean (± 1.39)	22.5	22.3	22.4		

* Applied 1965

General mean: 21.0

Mean D.M. %: 35.7

PLOT 5/2: DRY MATTER, CWT

TOTAL OF 3 CUTS

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.52)	72.3	69.4	69.0	68.0	69.7
		(± 3.03)			(± 1.52)
K0	67.1	68.5	71.5	61.4	67.1
K2	75.2	69.1	68.7	70.3	70.8
K4	72.5	69.0	70.5	69.9	70.5
K8	74.4	70.9	65.1	70.5	70.2
		(± 2.14)			(± 1.07)
N1	60.4	54.0	56.0	50.8	55.3
N2	84.2	84.8	81.9	85.2	84.0
	K0	K2	K4	K8	
		(± 2.14)			
N1	52.9	57.3	56.2	54.7	
N2	81.3	84.4	84.8	85.7	

K1 and K6 plots

	K1P2*	K6P2*	Mean
	(± 3.03)		(± 2.14)
N1	58.1	59.4	58.8
N2	88.1	81.4	84.8
Mean (± 2.14)	73.1	70.4	71.8

* Applied 1965

General mean: 70.1

Mean D.M. %: 23.9