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Yields of the Field Experiments 1967

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67/R/EPG/C/9 N P K - Old Grass (Park Grass Plot 5 Microplots)

Rothamsted Research

Rothamsted Research (1968) *67/R/EPG/C/9 N P K - Old Grass (Park Grass Plot 5 Microplots)* ; Yields Of The Field Experiments 1967, pp 147 - 156 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/C/9.1

PARK GRASS MICROPLOTS

(EPG 81-160)

Plots 5/1 and 5/2, 1967, the third year

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

N is now applied at 30 and 60 lb for each cut taken.

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

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

Cultivations, etc.: P and K applied: Feb 6, 1967. 'Nitro-Chalk' applied: Mar 10. Cut: May 16, July 3, Sept 6 (plot 5/2 only), Oct 25. 'Nitro-Chalk' applied after the first 2 cuts on plot 5/1 and after the first three cuts on plot 5/2.

Standard errors per plot. Dry matter:

Plot 5/1.	1st cut:	2.09	or	18.2%	(11 d.f.)
	2nd cut:	3.21	or	17.8%	(11 d.f.)
	3rd cut:	3.73	or	18.5%	(11 d.f.)
	Total of 3 cuts:	7.67	or	15.4%	(11 d.f.)

Plot 5/2.	1st cut:	3.81	or	17.3%	(11 d.f.)
	2nd cut:	2.44	or	8.8%	(11 d.f.)
	3rd cut:	2.09	or	10.0%	(11 d.f.)
	4th cut:	1.02	or	13.1%	(11 d.f.)
	Total of 4 cuts:	6.24	or	8.0%	(11 d.f.)

67/c/9.2

SUMMARY OF RESULTS

PLOT 5/1: DRY MATTER

1ST CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.74)	4.9	13.7	15.7	15.1	12.4
		(± 1.48)			(± 0.74)
K0	4.0	12.4	13.5	13.5	10.9
K2	6.2	16.1	19.1	14.2	13.9
K4	5.4	15.4	15.8	17.3	13.5
K8	4.0	11.0	14.4	15.4	11.2
		(± 1.04)			(± 0.52)
N1	5.4	10.7	12.0	12.5	10.1
N2	4.4	16.7	19.4	17.7	14.6
	K0	K2	K4	K8	
		(± 1.04)			
N1	10.3	11.5	10.0	8.9	
N2	11.4	16.3	16.9	13.5	

K1 and K6 plots

	K1P2*	K6P2*	Mean
		(± 1.48)	(± 1.04)
N1	8.2	8.2	8.2
N2	7.9	8.2	8.1
Mean (± 1.04)	8.0	8.2	8.1

* Applied 1965

General mean: 11.5

Mean D.M. %: 19.1

67/C/9.3

PLOT 5/1: DRY MATTER

2ND CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.13)	14.7	18.8	21.3	22.5	19.3
		(± 2.27)			(± 1.11)
K0	11.2	14.7	15.6	16.3	14.4
K2	16.8	20.9	22.6	23.0	20.8
K4	15.8	19.4	25.1	24.4	21.2
K8	15.0	20.3	21.9	26.1	20.8
		(± 1.60)			(± 0.80)
N1	15.3	17.4	18.4	19.0	17.5
N2	14.1	20.3	24.2	25.9	21.1
	K0	K2	K4	K8	
		(± 1.60)			
N1	14.8	18.4	17.5	19.4	
N2	14.1	23.3	24.8	22.3	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
		(± 2.39)	(1.69)		
N1	10.7	13.1	11.9		
N2	13.0	13.8	13.4		
Mean (± 1.69)	11.8	13.4	12.6		

* Applied 1965

General mean: 18.0

Mean D.M. %: 25.6

67/C/9.4

PLOT 5/1: DRY MATTER

3RD CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.32)	21.3	19.9	20.8	22.7	21.2
		(± 2.64)			(± 1.48)
K0	18.6	16.4	13.8	21.9	17.7
K2	21.8	22.9	23.7	18.6	21.8
K4	24.7	20.8	23.5	24.1	23.3
K8	20.2	19.5	22.5	26.2	22.1
		(± 1.86)			(± 0.93)
N1	18.4	17.4	19.3	20.0	18.8
N2	24.3	22.4	22.4	25.4	23.6
	K0	K2	K4	K8	
		(± 1.86)			
N1	14.4	18.9	21.4	20.4	
N2	20.9	24.7	25.1	23.8	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
		(± 1.44)	(± 1.02)		
N1	13.7	15.0	14.3		
N2	16.5	20.1	18.3		
Mean (± 1.02)	15.1	17.5	16.3		

* Applied 1965

General mean: 20.2

Mean D.M. %: 25.8

67/c/9.5

PLOT 5/1: DRY MATTER

TOTAL OF 3 CUTS

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 2.71)	41.0	52.5	57.8	60.3	52.9
		(± 5.42)			(± 2.87)
K0	33.8	43.6	42.9	51.7	43.0
K2	44.8	59.9	65.3	55.8	56.5
K4	45.9	55.7	64.4	65.8	57.9
K8	39.3	50.8	58.7	67.7	54.1
		(± 3.84)			(± 1.92)
N1	39.1	45.5	49.7	51.5	46.5
N2	42.8	59.4	66.0	69.0	59.3
	K0	K2	K4	K8	
		(± 3.84)			
N1	39.5	48.7	48.9	48.6	
N2	46.4	64.2	67.0	59.6	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
	(± 4.49)		(± 3.17)		
N1	32.5	36.2	34.3		
N2	37.4	42.1	39.7		
Mean (± 3.17)	34.9	39.1	37.0		

* Applied 1965

General mean: 49.7

Mean D.M. %: 23.7

67/C/9.6

PLOT 5/2: DRY MATTER

1ST CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.35)	21.7	22.3	23.6	21.7	22.3
		(± 2.69)			(± 1.35)
K0	16.5	16.4	21.9	22.9	19.4
K2	25.5	24.9	24.4	22.8	24.4
K4	20.9	23.3	29.5	22.4	24.0
K8	24.1	24.6	18.5	18.8	21.5
		(± 1.90)			(± 0.95)
N1	13.8	12.6	13.0	11.4	12.7
N2	29.6	32.0	34.2	32.1	32.0
	K1	K2	K4	K8	
		(± 1.90)			
N1	11.3	14.9	13.4	11.2	
N2	27.5	34.0	34.7	31.8	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
	(± 2.69)		(± 1.90)		
N1	14.3	14.5	14.4		
N2	27.0	27.4	27.2		
Mean (± 1.90)	20.7	21.0	20.8		

* Applied 1965

General mean: 22.0

Mean D.M. %: 17.6

67/C/9.7

PLOT 5/2: DRY MATTER

2ND CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.86)	28.3	25.9	28.4	26.3	27.2
		(± 1.73)			(± 0.85)
K0	27.2	26.3	29.8	27.5	27.7
K2	26.5	23.9	29.0	28.5	27.0
K4	30.8	27.6	27.8	23.9	27.5
K8	28.6	25.8	26.9	25.3	26.6
		(± 1.22)			(± 0.61)
N1	25.6	22.0	24.9	21.5	23.5
N2	30.9	29.8	31.8	31.1	30.9
	K0	K2	K4	K8	
		(± 1.22)			
N1	23.2	24.6	24.4	21.9	
N2	32.2	29.3	30.7	31.4	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
	(± 1.80)		(± 1.27)		
N1	24.7	26.1	25.4		
N2	31.7	35.7	33.7		
Mean (± 1.27)	28.2	30.9	29.6		

* Applied 1965

General mean: 27.7

Mean D.M. %: 23.8

67/C/9.8

PLOT 5/2: DRY MATTER

3RD CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.74)	21.4	19.5	21.9	21.3	21.0
		(± 1.48)			(± 0.81)
K0	20.5	20.2	22.3	21.7	21.2
K2	21.8	19.6	23.0	21.6	21.5
K4	19.7	18.4	22.6	21.5	20.6
K8	23.6	19.7	20.0	20.2	20.9
		(± 1.04)			(± 0.52)
N1	18.2	15.8	17.5	15.6	16.8
N2	24.6	23.1	26.4	26.9	25.2
	K0	K2	K4	K8	
		(± 1.04)			
N1	17.3	18.3	15.9	15.7	
N2	25.0	24.7	25.3	26.0	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
	(± 1.04)		(± 0.74)		
N1	17.4	19.0	18.2		
N2	23.2	21.7	22.4		
Mean (± 0.74)	20.3	20.4	20.3		

* Applied 1965

General mean: 20.9

Mean D.M. %: 18.0

67/C/9.9

PLOT 5/2: DRY MATTER

4TH CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.36)	8.2	8.3	7.8	7.9	8.1
		(± 0.72)			(± 0.40)
K0	9.3	7.8	7.7	7.2	8.0
K2	7.9	8.5	8.1	7.2	7.9
K4	7.4	8.6	8.0	7.6	7.9
K8	8.4	8.5	7.6	9.4	8.5
		(± 0.51)			(± 0.26)
N1	7.8	7.8	7.9	7.5	7.8
N2	8.6	8.9	7.8	8.3	8.4
	K0	K2	K4	K8	
		(± 0.51)			
N1	7.9	7.5	7.6	8.0	
N2	8.1	8.3	8.2	9.0	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
	(± 0.40)		(Mean ± 0.28)		
N1	6.6	6.6	6.6		
N2	6.7	8.2	7.4		
Mean (± 0.28)	6.6	7.4	7.0		

* Applied 1965

General mean: 7.8

Mean D.M. %: 15.9

67/C/9.10

PLOT 5/2: DRY MATTER

TOTAL OF 4 CUTS

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 2.21)	79.6	76.0	81.7	77.1	78.6
		(± 4.41)			(± 2.32)
K0	73.5	70.6	81.6	79.4	76.2
K2	81.6	77.0	84.5	80.1	80.8
K4	78.8	77.9	87.9	75.4	80.0
K8	84.5	78.6	72.9	73.7	77.4
		(± 3.12)			(± 1.56)
N1	65.5	58.2	63.3	56.0	60.7
N2	93.7	93.9	100.1	98.3	96.5
	K0	K2	K4	K8	
		(± 3.12)			
N1	59.8	65.3	61.2	56.7	
N2	92.7	96.3	98.8	98.2	
	K1 and K6 plots				
	K1P2*	K6P2*	Mean		
		(± 3.78)	(± 2.67)		
N1	63.0	66.3	64.7		
N2	88.6	93.0	90.8		
Mean (± 2.67)	75.8	79.6	77.7		

* Applied 1965

General mean: 78.4

Mean D.M. %: 18.8