

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1967

[Full Table of Content](#)



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)		(± 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