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Yields of the Field Experiments 1966

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66/R/PGM/C/13 N P K - Old Grass (Park Grass Plot 5 Microplots)

Rothamsted Research

Rothamsted Research (1967) *66/R/PGM/C/13 N P K - Old Grass (Park Grass Plot 5 Microplots)* ;
Yields Of The Field Experiments 1966, pp 165 - 173 - DOI:

<https://doi.org/10.23637/ERADOC-1-158>

66/c/13.3

PLOT 5/1: DRY MATTER

2ND CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.42)	16.7	21.3	26.1	28.3	23.1
		(± 2.84)			(± 1.42)
K0	10.3	18.1	20.8	23.0	18.0
K2	18.1	21.2	30.5	29.1	24.7
K4	20.6	25.2	26.1	29.0	25.2
K8	18.0	20.7	27.0	32.1	24.5
		(± 2.01)			(± 1.00)
N1	17.9	20.7	24.5	26.7	22.4
N2	15.6	21.8	27.8	29.9	23.8
	K0	K2	K4	K8	
		(± 2.01)			
N1	18.6	23.1	23.8	24.2	
N2	17.4	26.3	26.6	24.8	
	K1* and K6* plots				
	K1	K6	Mean		
	(± 2.84)		(± 2.01)		
N1	18.0	19.1	18.5		
N2	18.5	18.0	18.2		
Mean (± 2.01)	18.2	18.5	18.4		

* Applied 1965

General mean: 22.2

Mean D.M. %: 21.5

66/C/13.4

PLOT 5/1: DRY MATTER

3RD CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.86)	18.0	22.5	24.0	26.2	22.7
		(± 1.72)			(± 0.86)
K0	16.6	21.8	22.8	20.2	20.4
K2	17.9	23.8	22.4	26.7	22.7
K4	18.4	21.6	24.8	29.0	23.4
K8	19.2	22.8	26.2	28.9	24.3
		(± 1.22)			(± 0.61)
N1	17.3	21.8	22.7	26.6	22.1
N2	18.7	23.3	25.4	25.9	23.3
	K0	K2	K4	K3	
		(± 1.22)			
N1	19.4	22.9	23.3	22.7	
N2	21.3	22.5	23.6	25.9	
	K1* and K6* plots				
	K1	K6	Mean		
	(± 1.72)		(± 1.22)		
N1	16.4	19.8	18.1		
N2	18.7	22.4	20.6		
Mean (± 1.22)	17.6	21.1	19.4		

* Applied 1965

General mean: 22.0

Mean D.M. %: 19.5

66/C/13.5

PLOT 5/1: DRY MATTER

TOTAL OF 3 CUTS

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 2.23)	41.1	64.2	72.6	77.4	63.8
		(± 4.46)			(± 2.23)
K0	33.1	59.5	63.2	63.2	54.8
K2	43.9	65.5	77.1	78.9	66.4
K4	44.8	69.4	75.1	82.7	68.0
K8	42.4	62.4	74.9	84.8	66.2
		(± 3.16)			(± 1.58)
N1	42.7	61.7	66.3	73.4	61.0
N2	39.4	66.8	78.9	81.4	66.6
	K0	K2	K4	K8	
		(± 3.16)			
N1	53.8	63.5	63.3	63.4	
N2	55.7	69.2	72.7	68.9	
	K1* and K6* plots				
	K1	K6	Mean		
		(± 4.46)	(± 3.16)		
N1	49.4	56.7	53.0		
N2	53.7	55.1	54.4		
Mean (± 3.16)	51.5	55.9	53.7		

* Applied 1965

General mean: 61.8

Mean D.M. %: 21.1

66/c/13.6

PLOT 5/2: DRY MATTER

1ST CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.10)	35.5	33.9	39.0	33.6	35.5
		(± 2.19)			(± 1.10)
K0	34.4	32.9	34.5	34.7	34.1
K2	36.4	32.5	37.5	34.5	35.2
K4	35.2	36.5	43.2	32.0	36.7
K8	36.0	33.5	41.0	33.0	35.9
		(± 1.55)			(± 0.78)
N1	29.1	24.8	28.4	24.4	26.7
N2	41.8	42.9	49.7	42.7	44.3
	K0	K2	K4	K8	
		(± 1.55)			
N1	26.1	28.4	26.8	25.4	
N2	42.1	42.0	46.7	46.3	
	K1* and K6* plots				
	K1	K6	Mean		
		(± 2.19)	(± 1.55)		
N1	26.5	29.4	28.0		
N2	37.2	38.5	37.8		
Mean (± 1.55)	31.8	33.9	32.9		

* Applied 1965

General mean: 35.0

Mean D.M. %: 19.1

66/c/13.7

PLOT 5/2: DRY MATTER

2ND CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 1.01)	28.3	27.1	26.1	29.3	27.7
		(± 2.03)			(± 1.01)
K0	27.7	28.4	31.6	26.5	28.5
K2	29.2	26.4	26.7	32.8	28.8
K4	27.6	25.4	24.2	27.5	26.2
K8	28.6	28.4	22.0	30.4	27.4
		(± 1.43)			(± 0.72)
N1	28.3	25.9	27.8	27.5	27.4
N2	28.2	28.4	24.5	31.1	28.0

	K0	K2	K4	K8
		(± 1.43)		
N1	27.4	29.1	26.4	26.8
N2	29.7	28.5	26.0	27.9

K1* and K6* plots

	K1	K6	Mean
		(± 2.03)	(± 1.43)
N1	26.5	29.3	27.9
N2	33.7	33.1	33.4
Mean (± 1.43)	30.1	31.2	30.7

* Applied 1965

General mean: 28.3

Mean D.M. %: 20.7

66/c/13.8

PLOT 5/2: DRY MATTER

3RD CUT

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 0.78)	27.5	26.6	27.1	29.0	27.6
		(± 1.57)			(± 0.78)
K0	26.0	27.5	26.8	27.6	27.0
K2	27.8	26.8	29.1	30.2	28.5
K4	28.4	25.1	28.1	28.1	27.4
K8	27.7	27.2	24.5	30.1	27.4
		(± 1.11)			(± 0.56)
N1	27.1	23.7	25.7	25.3	25.5
N2	27.8	29.5	28.6	32.7	29.7
	K0	K2	K4	K8	
		(± 1.11)			
N1	25.6	27.1	2.8	24.3	
N2	28.3	29.8	30.0	30.5	
	K1* and K6* plots				
	K1	K6	Mean		
		(± 1.57)	(± 1.11)		
N1	26.8	27.2	27.0		
N2	30.5	32.1	31.3		
Mean (± 1.11)	28.6	29.7	29.1		

* Applied 1965

General mean: 27.9

Mean D.M. %: 16.3

66/C/13.9

PLOT 5/2: DRY MATTER

TOTAL OF 3 CUTS

Excluding K1 and K6 plots

	P0	P1	P2	P4	Mean
Mean (± 2.17)	91.2	87.6	92.3	91.9	90.8
		(± 4.33)			(± 2.17)
K0	88.1	88.7	92.8	88.8	89.6
K2	93.3	85.7	93.3	97.6	92.5
K4	91.2	87.0	95.4	87.7	90.3
K8	92.3	89.1	87.6	93.6	90.6
		(± 3.06)			(± 1.53)
N1	84.5	74.5	81.9	77.2	79.5
N2	97.9	100.8	102.7	106.6	102.0
	K0	K2	K4	K8	
		(± 3.06)			
N1	79.0	84.6	78.0	76.5	
N2	100.2	100.3	102.7	104.7	
	K1* and K6* plots				
	K1	K6	Mean		
		(± 4.33)	(± 3.06)		
N1	79.7	85.9	82.8		
N2	101.3	103.7	102.5		
Mean (± 3.06)	90.5	94.8	92.7		

* Applied 1965

General mean: 91.1

Mean D.M. %: 18.7

TABLE 1. SUMMARY OF DATA

FOR THE PERIOD 1960-1969

(Values in thousands of dollars)

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Production	100	100	100	100	100	100	100	100	100	100
Investment	100	100	100	100	100	100	100	100	100	100
Operating Costs	100	100	100	100	100	100	100	100	100	100
Depreciation	100	100	100	100	100	100	100	100	100	100
Income	100	100	100	100	100	100	100	100	100	100
Net Income	100	100	100	100	100	100	100	100	100	100
Capital Gains	100	100	100	100	100	100	100	100	100	100
Dividends	100	100	100	100	100	100	100	100	100	100
Retained Earnings	100	100	100	100	100	100	100	100	100	100
Total	100	100	100	100	100	100	100	100	100	100

* Applied 1960
 Generalized 1960
 from U.S. Dept. of Energy

66/c/14.1

PARK GRASS MICROPLOTS

(PGM 41-80)

Plot 6, 1966, the second year

For details of treatments etc., and for previous year's results see 'Results' 65/C/33.

Cultivations, etc.: P, K, Na and Mg fertilisers applied:

Dec 16, 1965. 'Nitro-Chalk' applied: Mar 7, 1966. Mecoprop treatment applied at 45 oz a.e. in 50 gals: First spraying: Apr 26, second spraying at same rate: July 28. Cut: May 4, June 1, July 8, Aug 1, Sept 8, Oct 7. 'Nitro-Chalk' applied after every cut except the last.

Standard error per plot.

Dry matter, total of all cuts: 4.09 or 5.5% (27 d.f.)