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Yields of the Field Experiments 1965

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65/R/PG/A/6 Park Grass - Hay

Rothamsted Research

Rothamsted Research (1966) *65/R/PG/A/6 Park Grass - Hay* ; Yields Of The Field Experiments 1965, pp 25 - 26 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/A/6.1

HAY - THE PARK GRASS PLOTS 1965

(FG)

The 110th year

For history, treatments etc., see 'Details' 1962.

Liming: All plots (excluding 5-1, 5-2, 6, 12, 15, 18-2 and all of plots 19 and 20) are divided into 4 sub-plots each, and ground chalk is applied in such a way as to establish and maintain the following reactions per sub-plot:-

Old scheme	South		North	
Sub-plot	a	b	c	d
ph existing ph		6	5	maximum acidity
Plot 18-1 and 3	are divided into a,b and c,d (a at the Eastern end).			

In 1965 ground chalk was applied to sub-plots as follows (tons CaCO₃):-

Plot	Sub-plot	
	b	c
1	-	2.5
4-2	1.0	4.5
9	2.0	3.5
10	1.0	4.0
11-1	5.0	4.0
11-2	3.0	4.0
13	-	1.0
18-1	-	2.0

Area of each sub-plot:*

Plot	Area	Area harvested
1	0.048	0.0070
2,3		0.0088
4-1, 4-2		0.0093
11-1 and 11-2	0.061	0.0094
7,8,9,10 and 13	0.123	0.0189
14,16 and 17	0.040	0.0057
18	0.081	0.0210

Microplots: Experiments using microplots are now in progress on the following plots:-

- 5-1 and 5-2 (Effects of NPK on old grass) (see 65/22)
- 6 (Effects of N levels on old grass) (see 65/22)

Cultivations, etc.: Dung applied to appropriate plots: Nov 10, 1964.

Mineral fertilisers applied: Nov 27. Ground chalk applied: Jan 6, 1965. Nitrogenous fertilisers applied: 1st dressing: Mar 10, 2nd dressing: Apr 13. Cut twice: June 28 and Dec 3.

* The lengths harvested on sub-plots a, b, c and d varied slightly. The areas given are averages.

65/A/6.2

SUMMARY OF RESULTS

DRY MATTER

Plot No	1st cut				Mean	2nd cut				Mean	Total of 2 cuts				Total
	a	b	c	d		a	b	c	d		a	b	c	d	
1	22.8	17.0	21.9	17.9	19.9	10.0	5.1	5.2	7.3	6.9	32.8	27.1	25.2	26.8	
2	20.6	22.6	23.4	21.3	21.9	6.7	5.9	7.8	6.0	6.6	27.3	31.2	27.3	28.6	
3	23.4	21.9	22.1	21.9	22.3	5.7	4.9	7.0	7.1	6.2	29.1	29.2	29.0	28.5	
4-1	28.0	28.5	29.0	32.6	29.5	13.5	10.7	14.3	15.6	13.5	41.5	43.3	48.2	43.1	
4-2	34.9	33.9	40.0	37.5	36.6	11.6	7.2	7.4	9.7	9.0	46.5	47.5	47.2	45.6	
7	44.3	45.0	41.8	34.5	41.4	17.7	17.4	21.0	17.4	18.4	62.1	62.8	51.9	59.8	
8	31.1	31.4	37.8	37.1	34.3	11.1	11.0	16.3	16.5	13.7	42.2	54.1	53.6	48.1	
9	51.5	47.8	50.7	56.3	51.6	19.5	13.0	6.5	8.4	11.8	71.0	57.2	64.7	63.4	
10	38.5	38.2	44.0	41.9	40.6	17.8	12.8	5.8	10.7	11.8	56.2	49.8	52.6	52.4	
11-1	60.9	55.4	57.4	50.5	56.1	23.8	20.3	17.6	29.5	22.8	84.8	75.1	80.0	78.9	
11-2	62.3	61.7	61.6	49.9	58.9	25.3	24.6	12.5	28.1	22.6	87.6	74.1	78.0	81.5	
12	28.7	27.5	27.5	27.5	28.1	19.1	13.5	13.5	13.5	16.3	47.7	41.1	41.1	44.4	
13	40.2	47.4	47.3	45.8	45.2	24.0	28.6	35.1	30.3	29.5	64.2	82.4	76.1	74.7	
14	43.4	50.4	46.9	42.7	45.9	10.9	11.5	16.1	17.8	14.1	54.3	63.1	60.5	59.9	
15	36.7	32.7	32.7	32.7	34.7	17.0	14.5	14.5	14.5	15.7	53.7	47.2	47.2	50.4	
16	43.3	43.4	44.4	36.6	41.9	15.2	16.3	20.1	16.7	17.1	58.5	64.6	53.2	59.0	
17	24.2	26.0	29.8	30.3	27.6	11.4	12.1	18.7	13.3	13.9	35.6	48.4	43.6	41.4	
18-1			19.5	15.2	17.4			14.5	12.8	13.7		34.1	28.0	31.0	
18-2					27.2					9.7				36.9	
18-3	28.6	31.6			30.1	10.8	12.1			11.4	39.4	43.7		41.5	
19-1					44.4					30.1				74.5	
19-2					42.1					22.6				64.7	
19-3					44.7					26.7				71.3	
20-1					46.6					33.9				80.5	
20-2					44.9					33.9				78.8	
20-3					42.1					30.3				72.4	

Mean D.M. %: 1st crop: 25.7 2nd crop: 23.5