

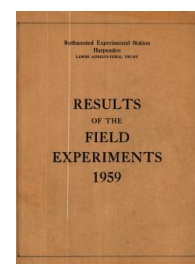
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# Yields of the Field Experiments 1959

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## 59/R/A/5 Barnfield - Mangolds and Sugar Beet

### Rothamsted Research

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59/A/6.1

## HAY - THE PARK GRASS PLOTS 1959

For history, treatments etc. see "Details of the Classical and Long Term Experiments" 1956.

### Use of flail-type forage harvester

At the time of the first cut the forage harvester was tested on small sample areas of 4 plots (1, 7, 11-1 and 13) and comparable samples were cut by cutter-bar machine. The produce was carted green. The grass remaining on these plots as well as that from the other plots of the experiment was harvested as in previous years, and the yields given in the summary are based on this method. At the second cut the forage harvester alone was used, the produce being carted green. The yields are based on sample cuts, 2 each from plots 1, 2, 3, 4-1, 4-2, 11-1, 11-2, 12, 14, 15, 16, 17, 19 and 20-1, 20-2, 20-3, and 4 each from the remainder. The area harvested per plot for the second cut varied from 0.0143 to 0.0784 acres.

Cultivations, etc.: Mineral fertilizers applied: Feb 18, 1959.  
Nitrogenous fertilizers applied: 1st dressing - Mar 25; 2nd dressing - Apr 10. Cut twice: June 15 and Sept 14 - 19.

59/A/6.2

Summary of ResultsYield of hay: cwt per acre

Plot	Not Limed		Total	Limed		Total
	1st crop	2nd crop		1st crop	2nd crop	
1	1.0	6.0	7.0	15.8	23.0	38.8
2	4.6	11.0	15.6	14.8	22.6	37.4
3	5.1	14.2	19.3	14.4	19.4	33.8
4-1	16.4	16.9	33.3	17.0	22.9	39.9
4-2	4.9	15.5	20.4	27.6	16.9	44.5
5-1	3.8	12.2	16.0			
5-2	24.7	19.9	44.6			
6	30.6	19.8	50.4			
7	34.1	16.2	50.3	44.1	19.9	64.0
8	18.5	19.1	37.6	16.8	17.5	34.3
9	14.4	29.6	44.0	55.1	15.6	70.7
10	7.6	20.4	28.0	34.6	13.1	47.7
11-1	1.4	47.6	49.0	55.7	21.1	76.8
11-2	12.0	45.9	57.9	66.9	33.0	99.9
12	5.8	17.6	23.4			
13	35.0	18.4	53.4	34.4	24.4	58.8
14	50.9	21.0	71.9	60.6	30.5	91.1
15	26.7	16.4	43.1	45.4	23.6	69.0
16	37.8	16.4	54.2	53.3	27.8	81.1
17	12.9	14.5	27.4	20.8*	19.2	40.0
18	1.4	5.5	6.9	18.8*	15.2	34.0
				16.0 <sup>+</sup>	17.9	33.9
19	17.4	16.6	34.0	30.3 <sup>+</sup>	18.8	49.1
				19.7*	16.2	35.9
20	33.7	16.6	50.3	35.3 <sup>+</sup>	26.1	61.4
				33.5 <sup>+</sup>	22.1	55.6

\*Heavy liming. <sup>+</sup>Light liming.

Note: The second crop was carted green; hay yields were estimated from the dry matter.

Mean dry matter % as weighed: 1st crop 82.1; 2nd crop 16.1.