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# Report for 1929

Korhammed Experimental Station
Harpenden

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REPORT

for

1929

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# **Mangolds**

## **Rothamsted Research**

Rothamsted Research (1930) *Mangolds*; Report For 1929, pp 33 - 33 - **DOI:** https://doi.org/10.23637/ERADOC-1-111

	Rothamsted.		Woburn.		
Spacing as set out	1928 24-inch rows. 10-inch singling.	1929 22-inch rows. 8-inch singling.	1929 I 22-inch rows. 8-9-inch singling.	1929 II 22-inch rows 8-9-inch singling.	
No. of plants expected No. harvested	26,000 17,715	36,000 30,350	35,000 31,800	35,000 32,700	
Plants obtained as percentage of what was expected	68%	83%	88%	94%	
Yield tons per acre average Average weight per root (lb.)	9.15	7.43 0.55	8.07 0.57	8.23 0.56	

### MANGOLDS.

The Barnfield mangold experiments bring out clearly the harmful effects of failure to balance nitrogenous manure with potash. So long as the complete fertiliser is given the plant grows well and responds to heavy dressings of manure: when potash is omitted, however, the leaves lose efficiency, they make much less root and tend to become diseased, and the whole plant is weakened so that the mortality is considerable. The plants are grown in rows 26½ inches apart: there are on the completely manured plots some 30,000 to 34,000 per acre. But where high nitrogen manuring is not balanced by potash the number of plants is much less and the roots are smaller.

This is shown in the following table:-

Barnfield Mangolds, 1924-29.

No. of plants and yield per acre Roots and Leaves.

Year No	Heavy	Nitrogenous Ma Potash (Plot 4 A.C.)		Heavy Nitrogenous Manuring without Potash (Plot 5 A.C.)		
	No. of Plants	Roots Yield per acre tons	Leaves Yield per acre tons	No. of Plants	Roots Yield per acre tons	Leaves Yield per acre tons
1924	3328	34.16	5.62 6.05	2573 2356	15.81 6.30	4.83 4.51
1925 1926	3201 3035	22.43 25.77	4.12	1996	8.29	2.25
1927*	3423	13.42	3.89	3263	12.79	3.59
1928	2978	29.22	5.01	2225	9.55	2.83
1929	3075	20.67	3.94	1741	4.71	2.09

<sup>\*</sup> Swedes.

#### BARLEY.

In 1929 comparisons were made between sulphate of ammonia, muriate of ammonia, cyanamide and nitrate of soda. Of these, nitrate of soda gave the largest increase, possibly as the result of the dry conditions; the others, however, came out practically alike. One cwt. of sulphate of ammonia gave its usual return of 6 bushels of barley, a second cwt. gave an additional 4 bushels. It has been our usual experience that cyanamide does as well as sulphate of ammonia. This year, in common with muriate of ammonia, it