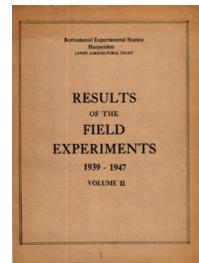


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# Yields of the Field Experiments 1939-1947 Volume 2

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## Q Carrots - Including Carrot Series

### Rothamsted Research

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Q/1

CARROTS

Woburn Lansome 1939 (6th year)

The effects of sulphate of ammonia, poultry manure, soot, rape dust and dung.

Design; 4 randomized blocks of 12 plots each.

Area of each plot; 0.00588 acre.

Treatments

None: Sulphate of ammonia at 0.4 and 0.8 cwt. N per acre (half in seed bed and half as top dressing) Poultry manure, soot and rape dust all at 0.8 cwt. N per acre: dung ploughed-in at 0.8 and 1.6 cwt. N per acre every second year including 1939, and every second year excluding 1939, and at 0.8 cwt. N per acre every year.

Basal manuring; superphosphate and muriate of potash applied to give a total of 1.0 cwt.  $P_2O_5$  and 1.0 cwt.  $K_2O$ , per acre, including the  $P_2O_5$  and  $K_2O$  in the organic fertilizer.

Crop Notes

Sown: May 22. Harvested: Oct. 27 and Nov. 11. Variety, Cooper's Early Market. Previous crop, kale (see 1938 Station Report, p.164).

Standard error per plot: 2.41 tons per acre or 20.5%, (34 d.f.)

Mean Yields: tons per acre

None	Sulphate of ammonia	Poultry Manure	Soot	Rape dust	
	0.4	0.8	0.8	0.8	0.8 cwt. N per acre
±0.852			±1.20		
10.56	11.04	11.88	13.83	12.92	13.03
Dung					
1938	0.8	1.6	0.8	0	0 cwt. N per acre
1939	0	0	0.8	0.8	1.6 per acre
			±1.20		Mean of all plots
	10.19	11.35	11.74	11.36	12.45
					11.74

Q/2

CARROTS

Woburn - Lansome 1941

Woburn - Butt Close 1942

Effects of sulphate of ammonia, superphosphate, muriate of potash and agricultural salt. These two experiments form part of a country wide series of 25 similar experiments.

Design; 4 randomized blocks of 8 plots each, the third order interaction being confounded with block differences.

Area of each plot, 0.00875 acre.

Treatments

Sulphate of ammonia: 1941, None, 0.4 cwt. N per acre.  
1942, None, 0.3 cwt. N per acre.  
Superphosphate: 1941, None, 0.8 cwt. P<sub>2</sub>O<sub>5</sub> per acre.  
1942, None, 0.6 cwt. P<sub>2</sub>O<sub>5</sub> per acre.  
Muriate of potash: 1941, None, 1.0 cwt. K<sub>2</sub>O per acre.  
1942, None, 0.9 cwt. K<sub>2</sub>O per acre.  
Agricultural salt: 1941 and 1942: None, 3.0 cwt. per acre.

Crop Notes

	Seed sown	Harvested	Variety	Previous crop
1941	June 23	Oct. 21, 31, Nov. 4, 12*	Cooper's Early Market	Oats
1942	April 14	Aug. 27, Sept. 3. Oct. 20 - Nov. 12	Cooper's Intermediate	Sugar beet

\*On each day a strip was taken through all plots.

Standard errors per plot:

1941 Total roots: 0.655 tons per acre or 12.6%, 12 d.f.

1942 1sts: 5.39 tons per acre or 23.5%, 14 d.f.

2nds: 0.590 tons per acre or 52.5%, 14 d.f.

Note: 2nds consisted mostly of splits together with the smalls.

Q/3

1941 Differential responses; tons per acre

	Mean	Sulph. amm. Abs.	Sulph. amm. Pres.	Super Abs.	Super Pres.	Mur. Pot. Abs.	Mur. Pot. Pres.	Salt Abs.	Salt Pres.
Total Roots. Mean yield: 5.21 tons per acre									
	±0.231					±0.327			
Sulph. amm.	2.11	-	-	2.42	1.80	2.32	1.90	1.92	2.30
Super	0.11	0.42	-0.20	-	-	0.25	-0.03	0.57	-0.35
Mur. pot.	-0.22	-0.01	-0.43	-0.08	-0.36	-	-	-0.40	-0.04
Salt	0.38	0.19	0.57	0.84	-0.08	0.20	0.56	-	-

1942

1sts: Mean yield, 22.92 tons per acre

	Mean	1sts: Mean yield, 22.92 tons per acre	2nds: Mean yield, 1.12 tons per acre
	±1.91		±2.70
Sulph. amm.	0.52	-	-1.20
Super.	0.11	-1.61	1.83
Mur. pot.	1.51	5.16	-2.14
Salt	4.22	3.35	5.09

2nds: Mean yield, 1.12 tons per acre

	Mean	1sts: Mean yield, 22.92 tons per acre	2nds: Mean yield, 1.12 tons per acre
	±0.209		±0.296
Sulph. amm.	0.14	-	0.05
Super.	-0.12	-0.21	-0.03
Mur. pot.	-0.03	0.01	-0.07
Salt	0.42	0.15	0.69