

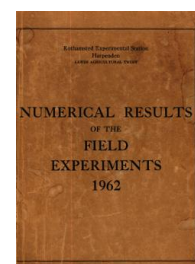
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1962

[Full Table of Content](#)



---

### 62/R/DH/1 Carrots - Motley Dwarf Virus

#### Rothamsted Research

Rothamsted Research (1963) *62/R/DH/1 Carrots - Motley Dwarf Virus* ; Yields Of The Field Experiments 1962, pp 146 - 147 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/Dh/1.1

## CARROTS

The effect of systemic insecticides on yield through control of motley dwarf virus - Woburn Butt Close 1962.

Design: A plaid rectangle of 4 rows and 8 columns.

Area of each plot: 0.0212 acres. Area harvested: 0.0016 acres.

Treatments. All combinations of:-

Seed dressing (to columns): None; 2% menazon.

Early spraying: None; sprayed twice (applied May 29 and June 8). (E)

Mid-season spraying: None; sprayed twice (applied June 23 and July 4). (M)

Late spraying: None; sprayed twice (applied July 16 and July 28). (L)

The spray used was demeton-methyl at 6 fluid oz active ingredient in 40 gallons per acre.

Basal dressing: 8 cwt compound fertiliser (10% N, 10% P<sub>2</sub>O<sub>5</sub>, 18% K<sub>2</sub>O) per acre.

Cultivations, etc.: Ploughed twice: Aug 25 and Oct 27, 1961. Basal fertiliser applied: Apr 24, 1962. Seed drilled at 4 $\frac{1}{4}$  lb per acre: Apr 26. Lifted: Sept 12. Variety: Scarlet Intermediate. Previous crops: Barley 1960 and 1961.

Note: Aphid counts and estimates of virus infection were made.

Standard errors per plot.

Saleable roots: 1.159 tons per acre or 4.6% (14 d.f.)

Tops from

saleable roots: 1.238 tons per acre or 10.3% (14 d.f.)

Summary of Results

Date of spraying

Seed dressing	-	E	M	Saleable roots: tons per acre				EML	Mean
				EM	L	EL	ML		
None (±0.820)	24.58	24.60	25.15	25.97	22.93	25.13	25.13	24.92	
	26.26	24.30	24.85	25.57	25.82	25.84	25.43	25.49	
Mean (±0.580)* Diff. (±1.159)*	25.42 +1.68	24.45 -0.30	25.00 -0.30	25.77 -0.40	24.38 +2.89	25.49 +0.71	25.28 +0.30	25.20 +0.57	
	<u>Tops from saleable roots: tons per acre</u>								
None (±0.875)	12.26	12.94	11.34	12.54	11.90	12.40	12.68	12.10	
	12.74	11.43	11.02	11.90	10.74	12.60	12.18	11.98	
Mean (±0.619)* Diff. (±1.238)*	12.50 +0.48	11.74 -0.61	11.18 -0.32	12.22 -0.64	11.32 -1.16	12.50 +0.20	12.43 -0.50	12.04 -0.12	

\*For use only in testing the difference of 2 differences.

Date of spraying

E = Early spraying: None; sprayed twice (applied May 20 and June 8).  
 M = Mid-season spraying: None; sprayed twice (applied June 23 and July 4).  
 L = Late spraying: None; sprayed twice (applied July 16 and July 28).