

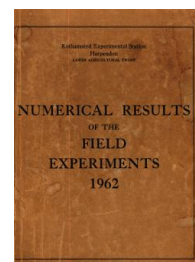
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Yields of the Field Experiments 1962

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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% P₂O₅, 18% K₂O) 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	25.85	24.92
	26.26	24.30	24.85	25.57	25.82	25.84	25.43	25.82	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	25.84 -0.03	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	11.62	12.10
	12.74	11.43	11.02	11.90	10.74	12.60	12.18	13.24	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	12.43 +1.62	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).