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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% P_2O_5 , 18% K_2O) 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.)

62/Dh/1.2

Summary of Results

Date of spraying

Seed dressing	-	E	M	EM	L	EL	ML	EML	Mean
<u>Saleable roots: tons per acre</u>									
None	24.58	24.67	25.15	25.97	22.93	25.13	25.13	25.85	24.92
Menazon	26.26	24.30	24.85	25.57	25.82	25.84	25.43	25.82	25.49
Mean (± 0.580)*	25.42	24.45	25.00	25.77	24.38	25.49	25.28	25.84	25.20
Diff. (± 1.159)	+1.68	-0.30	-0.30	-0.40	+2.89	+0.71	+0.30	-0.03	+0.57
<u>Tops from saleable roots: tons per acre</u>									
None	12.26	12.94	11.34	12.54	11.90	12.40	12.68	11.62	12.10
Menazon	12.74	11.43	11.02	11.90	10.74	12.60	12.18	13.24	11.98
Mean (± 0.619)*	12.50	11.74	11.18	12.22	11.32	12.50	12.43	12.43	12.04
Diff. (± 1.238)	+0.48	-0.61	-0.32	-0.64	-1.16	+0.20	-0.50	+1.62	-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).