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Yields of the Field Experiments 1963

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63/W/WCT101/DE/1 Carrots - Control of Motley Dwarf Virus

Rothamsted Research

Rothamsted Research (1964) *63/W/WCT101/DE/1 Carrots - Control of Motley Dwarf Virus ; Yields Of The Field Experiments 1963*, pp 181 - 182 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

63/De/1.1

CARRIETS

(Wct 101)

The effect of systemic insecticides on yield through control of motley dwarf virus - Woburn Lansome Field 1963.

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:-

Granular systemic insecticide (to columns): None, 0.75 lb per acre menazon drilled just below the seed.

Early spraying: None, sprayed twice*. (E)

Midseason spraying: None, sprayed twice. (M)

Late spraying: None, sprayed twice*. (L)

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

*Intended treatments, only one application was made.

Basal dressing: 8 cwt compound fertiliser (10% N, 10% P₂O₅, 18% K₂O) per acre.

Cultivations, etc.: Ploughed: Mar 8, 1963. Basal compound fertiliser applied: Apr 22. Menazon granules applied, seed drilled at 2.25 lb per acre: Apr 23. Demeton-methyl treatments applied: E - May 31, M - June 27 and July 8, L - July 22. Lifted: Sept 12. Variety: Scarlet Intermediate. Previous crops: Barley 1961, sugar beet 1962.

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

Standard errors per plot.

Roots: 2.328 tons per acre or 11.3% (14 d.f.)

Tops: 0.995 tons per acre or 14.0% (14 d.f.)

Summary of Results

Systemic Insecticide	Times of spraying							Mean	
	-	E	M	EM	L	EL	ML		EML
<u>Roots: tons per acre</u>									
	(+1.646)								
None	21.78	20.31	20.86	22.06	21.83	19.70	21.22	20.31	21.01
Menazon	19.06	18.17	19.56	20.73	20.67	22.25	20.03	22.19	20.33
Mean (+1.164)	20.42	19.24	20.21	21.39	21.25	20.98	20.63	21.25	20.67
Diff. (+2.328)*	-2.72	-2.14	-1.30	-1.33	-1.16	+2.55	-1.19	+1.88	-0.68
<u>Tops: tons per acre</u>									
	(+0.704)								
None	7.44	7.42	6.86	7.44	7.70	5.91	7.86	6.31	7.12
Menazon	6.45	5.91	7.44	7.70	6.89	7.70	6.59	7.86	7.07
Mean (+0.498)	6.95	6.67	7.15	7.57	7.29	6.81	7.22	7.09	7.09
Diff. (+0.995)*	-0.99	-1.51	+0.58	+0.26	-0.81	+1.79	-1.27	+1.55	-0.05

63/De/1.2

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

Times of spraying

E = Early spraying: None, sprayed once
 M = Midseason spraying: None, sprayed twice
 L = Late spraying: None, sprayed once