## Control of the Cabbage Maggot, Hylemya Brassicae (Bouché), in Rutabagas - 1954\*

In evaluating the treatments the categories of injury were as follows:

Clean—no maggot marks visible Light—superficial maggot injury Moderate—marketable for second grade after trimming Severe—unmarketable Exp. No. 54-17. Furrow, Band and Spray Methods. Five replicates in randomized blocks. Planting date, July 15. Band treatments applied July 12. Furrow treatment applied July 15. Second spray treatment applied August 3T. The rutabagas were harvested October 29, appraisal being based on 40 roots per plot, 200 per treatment.

Insecticide	Method of Application	Amount Actual/acre (pounds)	Total Infestation Index	Total Damage Index	Damage Reduction (per cent)
Check Heptachlor dust 2.5 Heptachlor dust 2.5 Aldrin dust 2.5 Aldrin dust 2.5 Aldrin emulsion Heptachlor emulsion Isodrin dust 2.0	Band Furrow Band Furrow Surface Surface Furrow	5.08 2.54 5.08 2.54 4.15 2.18 2.54	794 125 141 154 134 168 149 337	794 16 38 38 46 46 50 234	97.8 95.2 95.2 94.2 94.2 93.7 70.5

An infestation index was determined by placing penalties on infested plants as follows: Clean—0; light—1; moderate—2; severe—4; for the damage index only the two latter categories were used. Maximum damage index total 800.

The results confirm earlier findings of co-operative work carried out in British Columbia and Western Washington that effective control of root maggots attacking rutabagas is possible with heptachlor and aldrin under a wide range of conditions provided these chemicals are present in adequate amounts throughout the time protection from infestation is needed.

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<sup>\*</sup> The methods of application and evaluation are those described in detail and discussed by King, K. M. and A. R. Forbes, Jour. Econ. Ent. 47(4): 607-615, 1954. The work supplements that of King, K. M., A. R. Forbes, D. G. Finlayson, H. G. Fulton, and A. J. Howitt, Jour. Econ. Ent. 48(4):470-473, 1955; and Forbes, A. R. and K. M. King, Jour. Econ. Ent. (in press).