### Mean Damage Ranking

<table>
<thead>
<tr>
<th>Treatment and rate</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Hrvst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lorsban 50W</td>
<td>1.0</td>
<td>0.6</td>
<td>0.8</td>
<td>0.9</td>
</tr>
<tr>
<td>Pounce 3.2EC</td>
<td>0.1</td>
<td>0.0</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td>Dipel 100WP</td>
<td>1.0</td>
<td>0.5</td>
<td>0.5</td>
<td>1.1</td>
</tr>
<tr>
<td>Spur 2F</td>
<td>0.04</td>
<td>0.1</td>
<td>0.9</td>
<td>0.7</td>
</tr>
<tr>
<td>Spur 2F</td>
<td>0.075</td>
<td>0.6</td>
<td>0.9</td>
<td>0.9</td>
</tr>
<tr>
<td>Untreated</td>
<td>—</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
</tr>
</tbody>
</table>

### CABBAGE MAGGOT CONTROL, 1984:

The plot was planted and treated 2 Jul at our research farm near Geneva, NY in a lime silt loam soil. Seeds (planted 10/ft) and treatments were applied by hand using cone seeders. Germination counts were made 30 Jul. The crop was then thinned to 1 plant ca. every 18 inches. Plots consisted of a single row, 20 ft long, replicated 4 times in a randomized complete block. Insecticide applications were based on a 30-inch row width. In-furrow liquid applications were made with a gravity system mounted on a cone seeder delivering 50 GPA. Incorporated treatments were applied at 50 GPA using a CO2 sprayer mounted on a cone seeder. The 4-inch wide band of spray was then planted through, resulting in a slight mixing of the insecticide into the seed furrow. Over-furrow applications were applied at 50 GPA to the soil surface after planting. Seed treatments were applied to the seed using a 1% solution of Biofilm as the carrier. Injury ratings were made 12 Sep by pulling 10 roots/plot, washing them, and counting the number of tunnels present.

Lorsban 15G, when applied in the seed furrow at 1.0 lb (AI)/acre, performed especially well with no phytotoxicity noted. There appeared to be some stand reduction when Lorsban 4E was applied in the seed furrow at 1.0 lb (AI)/acre, and there was more feeding damage than was noted with the 15G application.

### PHYTOTOXICITY OF LORSBAN TO DIRECT-SEEDED CABBAGE, 1984:

Grower concerns for reduced and uneven stands of Lorsban-treated cabbage in the spring of 1984 prompted a test to determine the potential for phytotoxicity of Lorsban to direct-seeded cabbage. The plots were seeded on 21 Sep using a John Deere Flexiplanter unit mounted on a tractor. The soil was wet and planting conditions were marginal. These planting conditions were similar to the conditions in the spring when the uneven stands had occurred. Plots consisted of 30-ft single-row treatments replicated 3 times in a randomized complete block design. The entire plot was planted twice, one plot being irrigated with 1 inch of water on 24 Sep and the other left unirrigated. Treatments in each plot consisted of 2 series of 5 rates of Lorsban 4E, plus an untreated check. Lorsban 4E for 1 of the series of treatments (Lorsban 1) was donated by

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**CABBAGE: Brassica oleracea capitata** L. 'Roundup'

**Cabbage maggot, Delia radicum (L.)**

P. S. Robbins, M. L. Hessney, and C. J. Eckenrode

Department of Entomology

NYS Agric. Expt. Station

Geneva, NY 14456

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**CABBAGE: Brassica oleracea capitata** L. 'Special Golden Acre'

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**PHYTOTOXICITY OF LORSBAN TO DIRECT-SEEDED CABBAGE, 1984:** Grower concerns for reduced and uneven stands of Lorsban-treated cabbage in the spring of 1984 prompted a test to determine the potential for phytotoxicity of Lorsban to direct-seeded cabbage. The plots were seeded on 21 Sep using a John Deere Flexiplanter unit mounted on a tractor. The soil was wet and planting conditions were marginal. These planting conditions were similar to the conditions in the spring when the uneven stands had occurred. Plots consisted of 30-ft single-row treatments replicated 3 times in a randomized complete block design. The entire plot was planted twice, one plot being irrigated with 1 inch of water on 24 Sep and the other left unirrigated. Treatments in each plot consisted of 2 series of 5 rates of Lorsban 4E, plus an untreated check. Lorsban 4E for 1 of the series of treatments (Lorsban 1) was donated by