KENTUCKY BLUEGRASS: *Poa pratensis* L.  
Southern masked chafer (SMC); *Cyclocephala immaculata* (Olivier)  

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CONTROL OF SOUTHERN MASKED CHAFER GRUBS, 1988: This study was conducted in a Kentucky bluegrass plot in Fayette County, Ky. The established turf was on a Maury silt loam soil (fine-silty, mixed, mesic Typic Paleudalf) with pH 6.2. Thatch accumulation was <0.25 inches. On 2 Sep, turf-soil cores (6 by 6 inches) were removed from the plot and set inside 6-inch-diam by 7-inch-long sections of plastic pipe; the bottoms of the soil cores were even with the bottom of the pipe. A piece of fiberglass window screen was placed over each hole and the pipes and cores were replaced in the plot. The plot was then irrigated. Third-instar SMC grubs were collected from an untreated golf course rough 6 Sep. Ten SMC were placed in each cylinder; those that did not burrow into the soil within 10 min were replaced. Treatments were arranged in a randomized complete block design with 6 replicates. Insecticide treatments were applied 9 Sep. Granular insecticides were mixed with dry sand and handshaken into the cylinders. The liquid formulations were sprayed with 10 ml water into the cylinders. The plot was then irrigated with 0.75 inches water. On 23 Sep, the cylinders were removed from the plot, the soil cores were broken apart, and the surviving SMC grubs were counted.

All treatments provided significant control; Triumph and Oftanol gave >90% reduction relative to the untreated check. There was no apparent phytotoxicity from any treatment.

| Treatment   | Rate lb (AI)/acre | Avg grubs/cylinder | % Control  
|-------------|-------------------|--------------------|------------
| Triumph 2 G | 1.0               | 0.8a               | 91.3a      
| Oftanol 5 G | 2.0               | 0.9a               | 90.4a      
| Proxol 80 SP| 8.0               | 2.2ab              | 76.1ab     
| Turcam 2.5 G| 4.0               | 3.2ab              | 65.2ab     
| Sevin SL   | 8.0               | 4.0b               | 56.3b      
| Control    | —                 | 9.2c               | 0.0c       |

Means followed by the same letter are not significantly different (ANOVA; *a* = 0.05; Tukey).

CALENDULA: *Calendula officinalis* 'Bon Bon'  
Green peach aphid; *Myzus persicae* (Sulzer)  

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CONTROL OF GREEN PEACH APHID, 1988: Green peach aphid control was evaluated on greenhouse-grown calendula 12 Jun. The plants were in 4-inch pots evenly spaced on a greenhouse bench. Treatments were replicated 4 times in a randomized complete block design. The plants were sprayed until run-off with a Gilmore all-purpose trigger sprayer. A surfactant, Triton B 1956, was added to all treatments (3/4 oz/100 gal), except for the RH 7988 treatments for which Triton AG 98 was used (8 oz/100 gal). Infestations were determined by examining 4 leaves/plant and recording the total live aphids at 1, 7, and 14 DAT.

All treatments provided significant control when compared with the control (water + surfactant) at 1, 7, and 14 DAT. No phytotoxicity was observed.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate lb (AI)/100 gal</th>
<th>1 DAT</th>
<th>7 DAT</th>
<th>14 DAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH 7988 4 EC</td>
<td>0.25</td>
<td>7.50a</td>
<td>0.50a</td>
<td>0.50a</td>
</tr>
<tr>
<td>Orthene 75 SP</td>
<td>0.75</td>
<td>7.00a</td>
<td>1.00a</td>
<td>1.50a</td>
</tr>
<tr>
<td>RH 7988 4 EC</td>
<td>0.12</td>
<td>13.50b</td>
<td>3.00a</td>
<td>3.75b</td>
</tr>
<tr>
<td>RH 7998 4 EC</td>
<td>0.06</td>
<td>13.75b</td>
<td>4.50a</td>
<td>6.25b</td>
</tr>
<tr>
<td>Avid 0.15 EC</td>
<td>0.01</td>
<td>19.50b</td>
<td>8.25b</td>
<td>14.00b</td>
</tr>
<tr>
<td>RH 7988 4 EC</td>
<td>0.03</td>
<td>24.75b</td>
<td>19.25b</td>
<td>24.25b</td>
</tr>
<tr>
<td>Control</td>
<td>—</td>
<td>90.50c</td>
<td>100.25c</td>
<td>111.25d</td>
</tr>
</tbody>
</table>

Means followed by the same letter are not significantly different (*P* = 0.05; LSD).