Plant Back Interval for Select Ornamental Crops after Soil Applications of Sedgehammer.

DRAFT 1

Ornamental Protocol Number: 08-019

Objective: Determine phytotoxicity of Sedgehammer 75WG-treated soil after certain periods of time to establish minimum plant back intervals after application for select ornamental crops.

Experimental Design:

- **Plot Size:** Must be adequate to reflect actual use conditions.
- **Replicates:** Minimum of 4 replications of treated soil with minimum 6 plants per replicate
- **Application Instructions:** Apply Sedgehammer 75WG at 2.67 oz per acre to field in-ground plots at 3 months, 1 month, and 1 week before suitable transplant date for select ornamental crops. Target transplanting for mid to late September.
- **Plant Materials:** TBD.
  - Potential sensitive plants: *Echinacea sp.*, *Hemerocallis sp.*, *Spiraea sp.*, *Petunia or Impatiens sp.*
  - Potential insensitive plants: *Juniperus sp.*, *Rosa sp.*
- **Evaluations:** Record plant height & width at initial and final evaluations. Record phytotoxicity at 1, 2, and 4 weeks after transplanting and twice the following spring for perennial plants – within 2 weeks of breaking dormancy and after the first full flush of growth about 1 month later. Phytotoxicity should be recorded on a scale of 0 to 10 (0 = No phytotoxicity; 10 = Complete kill). If any phytotoxicity is observed in treated plants, take pictures comparing treated and untreated plant material.
  
  *If different application methods or evaluations are made, please clearly specify differences in final report and explain how they enhanced results.*

- **Recordkeeping:** Keep detailed records of weather conditions including temperature and precipitation, soil-type or soil-less media, application equipment, irrigation, liner size, plant height & width, and plant growth stage at application and data collection dates.

Treatments:

<table>
<thead>
<tr>
<th>Product</th>
<th>Rate</th>
<th>Special Instructions</th>
<th>Contact Information to obtain materials and any needed adjuvants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sedgehammer 75WG</td>
<td>2.67 oz (0.125 lb ai) per acre</td>
<td>Always use 0.25% v/v of a non ionic surfactant.</td>
<td>Gowan, Nina Wilson</td>
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<tr>
<td>Untreated</td>
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Reports:

Reports submitted on the standard IR-4 Ornamental Horticulture Research Report Form are preferred.

A report submitted electronically is preferred but not required. If the report is provided electronically, the basic report can be sent in MS Word or WordPerfect, the recordkeeping information as pdf or other electronic documents, and the raw data in MS Excel or other suitable program such as ARM.

Please direct questions to: Cristi Palmer, IR-4 HQ, Rutgers University, 681 US Hwy 1 S, North Brunswick, NJ 08902-3390, Phone 732-932-9575 x4629, palmer@aesop.rutgers.edu OR Ely Vea, 308 Aston Forest Lane, Crownsville, MD 21032, Phone & FAX#: 410-923-4880, E-mail: evvea@comcast.net.

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Revised By: CLP