Thank you for your participation in this survey.

The IR-4 Project’s Environmental Horticulture Program helps provide safe and effective pest management solutions for greenhouse, nursery, landscape, Christmas tree and forestry producers. Every other year, we prioritize the next two-year research plan at our Environmental Horticulture Workshop. We invite you to help us focus our research by answering a few questions about the diseases, insects, and weeds which impact your business.

1. Please check one affiliation:
   - ☐ Grower (Greenhouse and/or Nursery)
   - ☐ Landscape Care Professional
   - ☐ Interiorscaper
   - ☐ University or USDA-ARS Researcher
   - ☐ Cooperative Extension
   - ☐ Federal, State, or Local Government
   - ☐ Allied Industry Member

2. Please check all types of operations and pest management strategies relevant to your business:
   - ☐ Greenhouse
   - ☐ Nursery – Container
   - ☐ Nursery – Field-grown
   - ☐ Landscape
   - ☐ Interiorscape
   - ☐ Christmas Tree Farm
   - ☐ Sod Farm
   - ☐ Biological Control
   - ☐ Chemical Control
   - ☐ IPM
   - ☐ Organic
   - ☐ Standard Weekly/Monthly Program
   - ☐ Spray Program based on Thresholds

3. Please check all plant materials relevant to your business:
   - ☐ Bedding Plants
   - ☐ Cut Flowers
   - ☐ Christmas Trees
   - ☐ Foliage Plants
   - ☐ Herbaceous Perennials
   - ☐ Ornamental Grasses
   - ☐ Palms
   - ☐ Seasonal Potted Plants (ie Poinsettia)
   - ☐ Shrubs
   - ☐ Trees
   - ☐ Turf

4. Consider the plant materials you grow or maintain.

Then consider situations over the last year where you had difficulty managing diseases, pests, or weeds.

For all three areas, list the top three situations where your product arsenal was limited.

Be as specific as possible; for example, “Japanese beetle on rose” or “Rhizoctonia wilt on impatiens seedlings”.

Then put a ‘√’ or ‘X’ for each type of plant material where this issue occurs in your operation.

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<tr>
<th>Type of Plant Materials</th>
<th>Bedding Plants</th>
<th>Cut Flowers</th>
<th>Christmas Trees</th>
<th>Foliage Plants</th>
<th>Herbaceous</th>
<th>Ornamental Grasses</th>
<th>Palms</th>
<th>Seasonal Potted Plants</th>
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<td>Diseases (including bacteria, fungi, nematodes) with few to no available tools</td>
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5. Think about the crops you grow. Which three crops need more crop safety (phytotoxicity) information?
   1. __________________________  2. __________________________  3. __________________________

6. Please comment about other needs not covered above: __________________________________________
   __________________________________________
   __________________________________________

7. Please check one of the following:
   □ I need crop safety (phytotoxicity) data more than efficacy data
   □ I need efficacy data more than crop safety data
   □ I need crop safety data and efficacy data equally

8. Protecting beneficial organisms including pollinators is a key crop production strategy. Please check all
   methods below that you currently use:
   □ Apply crop protection tools when beneficial organisms are not present.
   □ Grow crops without pollinator attractive flowers.
   □ Apply only biopesticides.
   □ Scout for pest and disease hot spots and apply to only those areas.
   □ Apply best tool possible for crop situation knowing that some beneficial organisms may be harmed.
   □ Apply foliar tools when they offer greater safety than systemic tools.
   □ Grow flowering plants in greenhouses.
   □ Apply biorational tools.
   □ Use products without pollinator toxicity.
   □ Apply the optimal rate to manage pests or diseases without harming pollinators and other beneficial organisms.
   □ Apply systemic tools when they offer greater safety than foliar tools.
   □ Other __________________________________________

9. Please enter the state where you work: __________

10. What is today’s date? _________________

(Optional) Please fill out your name and address below:
    Name: __________________________________________
    Affiliation: ______________________________________
    Address: _________________________________________
    City _______________ State ___ Zip ______
    Phone Number ____________________________
    Email Address: _______________________________

Please mail completed survey to:
Cristi Palmer
Environmental Horticulture Program Manager
IR-4 Project
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Princeton, NJ 08540
Or Fax to: 609-514-2612