**Ontario Ornamental Growers: Pest Priority Survey 2023**

**Section A: Contact info** *(in case Cassie has questions/needs clarification)*

|  |  |
| --- | --- |
| **Name** |  |
| **Farm** |  |
| **Contact info  (email or phone)** |  |

**What does your nursery grow (check the boxes for all that apply)?**

* Container production
* Field production
* Propagating/producing liners
* Finishing plants
* Other (please specify) .  
   *(I.e. strictly conifers, majority boxwood, only natives, etc.)*

**What best describes your business/markets (select all that apply):**

* Big box retailers
* Garden centres
* Landscapers
* Conservation authorities/municipalities
* Other growers
* Strictly within Ontario
* Ontario and other provinces
* Export to the US/other countries

**Section B: Priority Pests Checklist**

**Please note there are three tables in total: 1 for entomology (insects), 1 for pathology (diseases), and 1 for weeds.**

**Instructions for each of the three tables. Work through one table at a time then move onto the next.**

**Step 1**: In each below, check the boxes of all the pests you are currently managing at your operation. Note that managing means monitoring/scouting and spraying for if necessary. You can be “managing” something without necessarily spraying each year.

**Step 2:** Of those pests that you have checked the boxes for, consider which have the potential to cause the most economic impact/losses to your business or impacts to plant health. Based on this, pick your top 5 pests and rank them from most impactful (1= the most impactful/top priority) and write the numbers in the priority ranking column.

If you feel like a pest you want to rank in your top 5 is not on this list, please add it into the blank rows at the end of the table.

**Step 3:** For your top 5 ranked pests, fill in the last two columns (pesticides you use for this pest, and your rationale/comments for ranking).

You are more than welcome to fill in these columns for other pests that aren’t necessarily ranked as your top 5 but you still feel are important (i.e. if a certain pest is regulated or only a sporadic issue).

**Step 4:** Before you finish, consider if there any other pests (on this list or not) that you have to manage where you have **no registered products** or possibly just one chemical option that poses a significant challenge to your operation. If so, please make note of this in the comments/rationale section.

**Considerations when selecting and ranking your top 5:**

* Try to only rank pest issues that have a significant impact to plant health and/or saleability/markets.
* Pest pressure may change year over year, sporadic pests can be just as important as pests seen each year, so consider the last number of years as a whole.
* Ultimately, we use the minor use system to get projects on pests where we have **very limited options for chemical control already registered**. So please try to avoid ranking pests on this list that already have numerous products registered (i.e. aphids and two spotted spider mite).

**Clarification: Please rank your top 5 pest issues for EACH table. Therefore you will have a top 5 for insects, top 5 for diseases and top 5 for weeds (15 priorities total).**

**For diseases, in the comments please specify the host plant most affected.**

**Insect Priorities (Table spans two pages)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Check the box if you’re actively managing this pest at your operation** | **Priority Ranking** (Rank your top 5 pests with 1 = highest priority) | **Pest** | **List what products you use to manage this** (list any and all products, even if they don’t specifically have that pest on the label) | **Rationale/Comments for ranking** (is it a regulated pest, do you have limited chemical options, is it a high value plant for you?) |
|  |  | Adelgids (cooley, eastern spruce, pine, etc.) |  |  |
|  |  | Aphids (various) |  |  |
|  |  | Black vine weevil |  |  |
|  |  | Boring insects (peach tree borer, willow poplar borer, viburnum, etc.) |  |  |
|  |  | Box tree moth |  |  |
|  |  | boxwood psyllid |  |  |
|  |  | Brown Marmorated Stink Bug |  |  |
|  |  | Cynipid gall wasp |  |  |
|  |  | Fall webworm |  |  |
|  |  | Hemlock Woolly Adelgid |  |  |
|  |  | Japanese beetle - adults |  |  |
|  |  | Leafhoppers (various) |  |  |
|  |  | Leafminers (elm, birch, boxwood) |  |  |
|  |  | Leafrollers and leaf tiers |  |  |
|  |  | Open feeding sawflies (roseslug, pine, elm, etc.) |  |  |
|  |  | Other mites (not TSSM) please specify if possible  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
|  |  | Red Headed Flea Beetle |  |  |
|  |  | Scale insects (Euonymus, Magnolia, Lecanium, etc.) |  |  |
|  |  | Spongy Moth |  |  |
|  |  | Strawberry root weevil |  |  |
|  |  | Tarnished plant bug |  |  |
|  |  | Thrips (various) |  |  |
|  |  | Two spotted spider mite |  |  |
|  |  | White grubs (Japanese beetles, chafers, etc.) |  |  |
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**Disease Priorities (table spans two pages)**

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| --- | --- | --- | --- | --- |
| **Check the box if you’re actively managing this pest at your operation** | **Priority Ranking** (Rank your top 5 pests with 1 = highest priority) | **Pest** | **List what products you use to manage this** (list any and all products, even if they don’t specifically have that pest on the label) | **Impacted Host plant(s) and Rationale/Comments for ranking** (is it a regulated pest, do you have limited chemical options, is it a high value plant for you?) |
|  |  | Anthracnose |  |  |
|  |  | Bacterial leaf spot |  |  |
|  |  | Boxwood blight |  |  |
|  |  | Downy mildew |  |  |
|  |  | Fireblight |  |  |
|  |  | Gray mold |  |  |
|  |  | Nectria canker |  |  |
|  |  | Needlecast |  |  |
|  |  | Nematodes |  |  |
|  |  | Powdery mildew |  |  |
|  |  | Root rot diseases |  |  |
|  |  | Rusts (please specify host) |  |  |
|  |  | Septoria |  |  |
|  |  | Shoot hole disease |  |  |
|  |  | Verticillium |  |  |
|  |  | Volutella blight |  |  |
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**Weed Priorities (table spans two pages)**

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| --- | --- | --- | --- | --- |
| **Check the box if you’re actively managing this pest at your operation** | **Priority Ranking** (Rank your top 5 pests with 1 = highest priority) | **Pest** | **List what products you use to manage this** (list any and all products, even if they don’t specifically have that pest on the label) | **Rationale/Comments for ranking** (is it a regulated pest, do you have limited chemical options, is it a high value plant for you?) |
|  |  | Bittercress |  |  |
|  |  | Chickweed |  |  |
|  |  | Crown vetch |  |  |
|  |  | Fleabane |  |  |
|  |  | Liverwort |  |  |
|  |  | Pearlwort |  |  |
|  |  | Purslane |  |  |
|  |  | Rough horsetail |  |  |
|  |  | Willow herb |  |  |
|  |  | Wood-sorrel |  |  |
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**Final Question:**

Do you have other pests of concern (invasives and/or regulated pests you’re maybe not necessarily managing yet but are on your radar that you would like to make note of:

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***Thank you very much for taking the time to fill out this survey to your best ability!!!***