**Greenhouse Certification Program Pest Module –**

***Anthonomus rubi* (Strawberry Blossom Weevil)**

Pest Modules are required to enable trade when there is a regulated pest and there are plants in production that could be a pathway for the regulated pests. In the case of *A. rubi*, the facility must meet the requirements of ISPM 10 for a Pest Free Place of Production (PFPP) or a Pest Free Production Site (PFPS) to export host plants to the United States. The goal for facilities outside of British Columbia is to confirm the place of production is pest free, and to maintain pest freedom.

For facilities in British Colombia, the goal is to confirm the production site is pest free, and to maintain pest free status. There are a number of additional criteria for places of production in BC, including:

[ ]  Monitoring practices in infested areas shall include debris removal, bud removal for strawberry plants, and aborted/dropped bud dissections/inspections

[ ]  Additional scouting is required in infested regions

[ ]  Buffer zone requirement – will need to establish a scouting program, ensure no hosts are in the buffer area, and include a spray program for the buffer area (e.g., use of herbicides to control potential hosts).

Any positive find within the PFPP/PFPS means the host plants are not eligible to export.

The following sections should be used to describe the specific measures to prevent the introduction of *A. rubi* at your facility. Facilities must work with their respective NPPO to determine any additional pest mitigation measure that may be required, other than what is listed here. The NPPOs may accept or reject the proposed Pest Module or may conditionally accept the proposal if additional conditions specified by the NPPO are implemented.

**Facility and Contact Information**

|  |  |
| --- | --- |
| **Does your facility participate in a Systems Approach (Assurance) Program? (e.g. GCP, CNCP)** | [ ]  Yes[ ]  No |
| **In which geographical region is your facility located?** | [ ]  Infested region - specify where within BC: [ ]  Fraser Valley/metro Vancouver[ ]  other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [ ]  Not known to be infested (province outside of BC)  |
| **If your facility has a current greenhouse certification program number, please enter it here**  | e.g., CAN-GCP- |
| **Name of Company/Facility** | **Name of Contact Person (e.g., GCP Manager, Certification Manager)**  |
| **Facility Address where Module will be Implemented** | **Specific blocks/farm locations** |
| **Additional Address if Applicable** | **Specific blocks/farm locations** |
| **Phone** | **Email** |

We have the following host plants in production (check all that apply). Include the source (i.e., country of propagative origin, and the region if the plants are sourced from infested areas):

[ ]  *Rosa* spp. (Source(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

☐ *Fragaria* spp. (Source(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

[ ]  *Rubus* spp. (Source(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

**Note**: *Rubus* spp. are ineligible to ship under GCP label. Contact your NPPO for guidance.

|  |
| --- |
| **Describe the additional or specific measures at your facility***Check only the boxes that apply, and provide more detail where applicable (e.g., green highlighted sections). Additional measures and details are required in areas where there is increased risk.* |
| **Administrative Controls** |
| *Staff designation* | Designated scouts are assigned to inspect and monitor for all pests, including SBW (strawberry blossom weevil)The list of trained personnel can be found xxx, and is maintained by xxx (i.e., the person responsible) |
| *Training* | Personnel are trained to identify or detectSBW based on damage symptoms and insect biology, at receiving, through production, and at shipping.Emphasis is placed on identifying symptoms of bud damage and techniques for inspecting buds. |
| *Resources* | Resources include (but are not limited to):[ ]  [SBW factsheet from BC Invasive Council](https://bcinvasives.ca/invasives/strawberry-blossom-weevil/)[ ]  [CFIA’s website](https://inspection.canada.ca/plant-health/invasive-species/insects/strawberry-blossom-weevil/eng/1600198042434/1600198043152) [ ]  [Hort Development Council UK](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjjwfOLmPbyAhWyc98KHcFBBXoQFnoECAUQAQ&url=https%3A%2F%2Fprojectblue.blob.core.windows.net%2Fmedia%2FDefault%2FHorticulture%2FPublications%2FStrawberry%2520blossom%2520weevil.pdf&usg=AOvVaw1oaQXWe28q6r9n_HgD38hw) [ ]  [Russell IPM online information resources](https://russellipm.com/insect/anthonomus-rubi-strawberry-blossom-weevil/)[ ]  [OMAFRA CropIPM information on Strawberry Clipper Weevil](http://www.omafra.gov.on.ca/IPM/english/strawberries/insects/strawberry-clipper-weevil.html) (*Anthonomus signatus*) is reviewed as a comparison to SBW[ ]  Other, provide details*Resources are available to designated personnel and are stored on our computer system* ***or*** *in a pest information binder found XXX. A hand lens or microscope is available.* |
| *Purchasing* | [ ]  **Host plant material is sourced from locations free of SBW**, or from certified/approved facilities if applicable (with appropriate declarations or GCP/CNCP authorized facilities with an approved SBW module)[ ]  Host plant material for production is purchased as seed, bare root or in a vegetative state (e.g., cuttings)[ ]  Host plant material for production is generated through self-propagation[ ]  We request that host plant material received as plugs have debris and flower buds removed prior to packing/shipping[ ]  Other, provide details, particularly if host plants are purchased from an infested region (e.g., they are bare root, vegetative, no host plant litter, etc.) |
| *Records* | Proof of these procedures is maintained in our facility records for at least 3 years as per the requirements of the GCP/CNCP |
| *Other* | Our facility is registered with the APHIS stakeholder registry and the CFIA Email Notification Subscription Self-ServiceNOTE: Ongoing contact with local regulators and extension authorities will be maintained to verify if the pest is absent in the region of the facility. |
| **Systems to Establish & Maintain Pest Freedom** |
| *Monitoring and inspection program* | [ ]  Weekly scouting of host plants includes inspection for damage or signs of the insect pest. Note that the pest is very small; it may be more practical to scout for pest damage to buds versus the actual pest life stages, and adults are much easier to scout for and identify than larval stages[ ]  Prior to bud development and at the early emergence of buds, random whole plants with dry foliage will be selected and tapped above a white container (dry plants are important since the weevil is known to hide in wet conditions, e.g., after irrigation) [ ]  Once flower buds develop, withered and/or cut flower buds are inspected for evidence of SBW using the tapping technique and aborted bud dissections[ ]  Scouting during the appropriate life stage for adults based on pest biology, crop growth stage (flowering vs. vegetative), climate and production practices [ ]  Other, provide details |
| *Cultural practices* | [ ]  The facility is maintained according to good agronomic practices[ ]  Commercial/sterile soil-free media is used [ ]  Separately identified host plant production blocks (see page 1) are separated by at least 10’ (3 m)[ ]  A minimum 10’ (3 m) host-free border is maintained around the perimeter of side-vented greenhouse (and cold frames if applicable)[ ]  A minimum 3’ (1 m) host-free border is maintained around the perimeter of top-vented greenhouse areas[ ]  Treatments to reduce or manage flowering in plants in the host-free border (as per provincial guidelines)[ ]  Plant debris is managed i.e., plant debris is removed as production and handling practices provide; plant debris is removed prior to shipping[ ]  Spray program – in crop (as per provincial guidelines)[ ]  Other, provide details |
| *Infrastructure controls* | [ ]  Host plant returns are not accepted from infested areas[ ]  Host plants are shipped in sealed (i.e., closed) vehicles to prevent infestation (if being shipped through infested areas)[ ]  We avoid cross-docking inbound and outbound host plants (i.e., having uncertified, uninspected received plants adjacent to Certified Plants ready for shipping) during flowering stages, or a minimum of 10’ (3 m) distance is maintained between inbound and outbound host plants[ ]  Prior to packing/shipping, we remove all visible plant litter (debris), plant debris is removed prior to shipping[ ]  Other, provide details |
| **Verification that Pest Freedom has been Attained or Maintained** |
| *Specific Records* | Records of scouting and incoming/outbound inspections are maintained as per the requirements of the GCP[ ]  Surveys during growing-season [ ]  Inspections during growing-season [ ]  Other records as requested by NPPO  |
| *Other* | [ ]  An inspection of the product prior to shipment[ ]  Other, provide details |
| **Does your facility have outdoor production of host plants?** | [ ]  Yes [ ]  No*If yes, your facility* ***will*** *require additional measures. There is a separate* ***Request for Outdoor Exemption template*** *for outdoor production. Contact your NPPO for guidance.* |

**Our facility verifies that this application is accurate and represents the activities and/or measures in place at our facility to prevent the spread of this pest.**

|  |  |  |
| --- | --- | --- |
| **Applicant Name** | **Signature** | **Date** |
| **For NPPO Administrative Use Only** |
| **Date Received** | **Date Approved** | **Verified By (Name)** |
|  |  |  |