# Manual Attachment I.3: *C. buxicola Nursery* Certification Module

Incoming boxwood and pachysandra plants

#### **Skip to next section if nursery uses a stamp for the Clean Plant P. Ramorum module that states ‘inspected and found free of symptoms of P. ramorum. box blight will be added to this stamp.**

* The nursery uses the Clean Plants Stamp: ‘Inspected and Found Free of Symptoms...’

#### For nurseries that do not use the Clean Plants Stamp, fill in the following information.

1) How will the incoming plant inspection be recorded to confirm ‘Boxwood and pachysandra plants were received free from symptoms of Box Blight’?

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Boxwood and pachysandra plants received from uncertified sources

1) Describe the inspection process for all incoming **uncertified** or imported boxwood and pachysandra plants (from foreign suppliers that are not following a Box Blight Best Management Practices) before they are moved to an isolation area buffered[[1]](#footnote-1) from the production area. Plants will remain in isolation for one active growing season (120 days) with no fungicide sprays applied and regular monitoring for symptoms of Box Blight.

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#### Insure that the isolation period (120 days or one full active growing season) is tracked within the Clean Plants system used to track received uncertified plants.

A template to track uncertified boxwood and pachysandra blocks during the isolation period is available at the end of this Module. Attach isolation area record example at the end of this Module.

Boxwood and pachysandra plant returns

All certified or uncertified boxwood and pachysandra plants shall **not** be returned to the nursery.

Receiving certified or uncertified boxwood and pachysandra plants with *C. buxicola* symptoms

1) Describe the process that the nursery staff will take if boxwood and pachysandra plants are received with *C. buxicola-*like symptoms.

Check each process that applies:

* Refusal of the shipment and return to supplier
* Movement a restricted area for sampling and testing
* Immediate destruction using the nursery’s biosecurity and sanitation policies
* Other, explain

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If the receiving inspection is recorded on a form other than the standard shipping documents received with the plants, attach an example at the end of this Module.

Inspection and handling of boxwood and pachysandra plants at shipping

1) Describe how the Clean Plants certification status of the shipped boxwood and pachysandra plants will be extended to Box Blight certification on the shipping documentation.

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Boxwood and pachysandra plants with symptoms at shipping

1) Describe how boxwood and pachysandra plants with symptoms will be handled at shipping.

Check each process that applies:

* Destroy plants by disposing off site, burning or burying (1 meter deep)
* Place plants in a restricted area for sampling and testing to verify a Box Blight infection.
* Ship plants as uncertified (notify customer and state change in certification status on shipping documentation)
* Other handling options (explain below):

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Boxwood and pachysandra plants with box blight*-*like symptoms in production

1) Describe the nursery’s procedure when detecting Box Blight-like symptoms in boxwood and pachysandra plants in the production areas. This procedure requires the creation of a restricted area. Sanitation and biosecurity procedures shall be followed. Note that sampling and testing to confirm the diagnosis is highly recommended.

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2) Who will make the decision to create a restricted area for symptomatic plants within production to separate them from non-symptomatic plants?

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3) How will the sampling and testing of symptomatic plants take place? (Describe record keeping below.)

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4) Describe the method of disposal of infected plants after confirmation of C. buxicola infections has been made.

* + Deep burial: to a depth of one (1) metre covered by soil
  + Incineration to ash
  + Disposal off-site in land fill by removal of plants and debris using bagging or large bins.
  + Other, explain below

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5) Describe the radius of boxwood and pachysandra plant destruction surrounding the original location of the Box Blight infected plants. (A minimum of a two (2) meter radius around each infected plants is required.)

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Records of sampling and testing and plant disposal

1) Describe the documentation used to record boxwood and pachysandra plants that have been sampled and tested.

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Best management practices

#### The following Best Management Practices are also described in the Clean Plants Attachment I.2., P. ramorum Module. For nurseries certified under the P. ramorum Module, complete the following checklist of BMP’s in reference to Boxwood and Pachysandra growing conditions at the nursery. All BMP’s listed are strongly recommended.

Check each process that applies:

* Movement of staff, equipment and plants are managed to minimize potential spore movement
* Overhead irrigation is controlled to minimize leaf wetness
* Plants are spaced to increase air flow and reduce prolonged leaf wetness
* Staff employees do not work in boxwood or pachysandra beds immediately after irrigation or rainy periods
* Staff employees work in boxwood and pachysandra beds at the end of the day with sanitation of tools and clothing below the beginning of the next work day
* Boxwood and pachysandra plants are separated into blocks with a minimum of a two meter buffer (plant free or host free) in between

**If the nursery does not participate in the Clean Plants P. ramorum Module, list describe the BMP’s employed at the nursery in the space provided below**

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Biosecurity and sanitation policies

#### The following Biosecurity and Sanitation Policies are also described in the Clean Plants P. ramorum Module. For nurseries certified under the P. ramorum Module, complete the following checklist in reference to Boxwood and Pachysandra growing conditions at the nursery.

Check each process that applies:

* Minimize movement of boxwood and pachysandra plants to prevent movement of latent infections
* Sanitize footwear, tool, and equipment on a regular basis.
* Sanitize polyhouses and growing production beds that house boxwood or pachysandra plants when plants are moved for transplanting, overwintering or shipping.
* Destruction of all plant debris from all sources, including debris in delivery trucks, production beds, shipping and receiving areas, and isolation areas

Check all those that apply:

* Bagged and disposed of offsite
* Burned to ash
* Buried to a depth of 1 metre (3 feet) onsite
* Other, describe below:

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Debris should not be composted.

#### If the nursery does not participate in the Clean Plants P. ramorum Module, list describe Biosecurity and Sanitation Policies employed at the nursery in the space provided below

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#### **Skip the section below if you have described a visitor policy as part of the Clean Plant P. Ramorum module**

* The nursery’s visitor’s policy is described in Clean Plants Nursery Manual attachment I.2

#### If you do not have a visitor policy stated in the Clean Plants Nursery Manual, fill in the following information.

Visitor policy

1) Describe the visitor movement policy at the nursery. Spores are transmitted on plant debris. Debris can be transported by people, equipment, and tools.

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2) If a visitor log is part of the visitor policy, where and how is the nursery visitor log maintained?

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If used, attach an example of the visitor’s log at the end of the Module.

Attachment options:

***Attach examples of the following documentation:***

1. **Tracking of uncertified blocks of boxwood and pachysandra in the isolation area**
2. **Record of sampling and testing of boxwood and pachysandra plants with symptoms**
3. **Receiving inspection form (not required if the nursery is certified under the Clean Plant *P. ramorum* Module)**
4. **Visitor’s log (not required if the nursery is certified under the Clean Plant *P. ramorum* Module)**

Template: Incoming Plants Inspection Record

A Phase 1 *C. buxicola* certified nursery can use this Template to record incoming plant inspections, or modify as required to prepare a form tailored to nursery procedures.

A certified nursery does not have to use this Template or prepare a new form.  
It is acceptable for this program to record inspection results on documents accompanying plants on arrival.

|  |  |
| --- | --- |
| Date: |  |
| Supplier Name |  |
| Location/ address |  |
| Certification Status | **Check one:**   * Phase 1 or other certification designation * Uncertified |
| Inspection Results | **Check one:**   * Symptom-free * Symptoms observed |
| **Symptom-free** Follow up Action | **Check one:**   * Movement to production * Movement to isolation |
| **Symptoms observed** Follow up Action | **Check one:**   * Movement to a restricted area for sampling and testing * Returned to supplier * Destroyed, describe method below:   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Inspector’s Name |  | Initials: |

A Clean Plants certified nursery can use this Template to record blocks of uncertified boxwood and pachysandra plants placed in the isolation area. The nursery does not have to use this form or a new form prepared. Other methods of recording keeping already in use at the nursery can be used.

Template:   
Record for Uncertified Boxwood and Pachysandra Plants Placed in an Isolation Area

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Block #  Location | Species/Cultivar Name | Pot Size | # of Plants | Date placed in isolation | Sample/ File #  Flag # | Symptoms observed? | Sampling and Testing Dates | Testing Results |
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Corrections and Additions to the *C. buxicola* Certification Module

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| **Date** | **Section**  **Page** | **Correction/ Addition** | **Initials** |
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**Nursery Name:**

***C. buxicola* Certification Number:**

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| **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
| 4.1 | Incoming boxwood and Pachysandra plants |  |  |
|  | **(non- P. ramorum Certified nurseries only)**  Description of the incoming plant inspection recording process |  |  |
| 5.1.3  5.2.2 | Boxwood and Pachysandra Plants Received from Uncertified Sources |  |  |
|  | Inspection process describing before movement to an isolation area for one active growing season |  |  |
| 5.2.3 | Receiving certified or uncertified boxwood and pachysandra plants with C. buxicola symptoms |  |  |
|  | Check list for handling symptomatic plants |  |  |

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| **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | | **Complete?**  **Yes/No/NA** | | **Comments** |
| 5.5 | Inspection and Handling of Boxwood and Pachysandra plants at Shipping | |  | |  |
|  | Description of certification status recorded on shipping documentation | |  | |  |
| 5.5.1 | Boxwood and Pachysandra Plants with symptoms at shipping | |  | |  |
|  | Checklist for handling process of symptomatic plants at shipping | |  | |  |
| 6.0 | **Boxwood and pachysandra plants with box blight-like symptoms in production** | |  | |  |
|  | Description of process for establishing a restricted area for symptomatic plants detected at shipping | |  | |  |
|  | Position at nursery who makes the decision to establish a restricted area | |  | |  |
|  | Description of the sampling and testing procedure | |  | |  |
|  | Method of disposal of plants with confirmed C. buxicola infections and radius of destruction surrounding the original location of the infected plants | |  | |  |
| **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | | **Comments** | |
| 4.0, 4.2 | **Records of sampling and testing and plant disposal** |  | |  | |
|  | Description of documentation used to record sampling and testing |  | |  | |
| 5.3 | **Best management practices** |  | |  | |
|  | Check list completed |  | |  | |
|  | **(non*- P. ramorum* Certified nurseries only)**  Description of the BMP’s employed to reduce the risk of *C. buxicola* introduction and spread |  | |  | |
| 5.6, 6.2 | **biosecurity and sanitation policies** |  | |  | |
|  | Check list completed |  | |  | |
|  | **(non*- P. ramorum* Certified nurseries only)**  Description of the biosecurity and sanitation policies employed to reduce the risk of *C. buxicola* introduction and spread |  | |  | |

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| **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
| 4.5 | **(non*- P. ramorum* Certified nurseries only)**  **Visitor policy** |  |  |
|  | Description of the visitor policy employed to reduce the risk of *C. buxicola* introduction and spread |  |  |
|  | Description of the visitors’ log |  |  |

**Nursery Name:**

***C. buxicola* Certification Number:**

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| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
| **I** | **4.1** | **Incoming boxwood and pachysandra plants** |  |  |
|  |  | **(Non-P. ramorum Certified nurseries only)**  Review procedure for handling received plants Are the plant inspectors at receiving aware of the policy for inspection and record keeping for this Module? |  |  |
|  | **5.13, 5.2.2** | **Receiving boxwood and pachysandra Plants from Non-certified Sources** |  |  |
|  |  | Is there an isolation area that can be used when non-certified host plants can be moved and growing for one active growing season? |  |  |

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| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
|  | **5.5** | Inspection and handling of boxwood and pachysandra plants at shipping |  |  |
|  |  | Examine shipping documentation to that the Box Blight certification status has been stated clearly |  |  |
|  | **5.5.1** | Boxwood and pachysandra plants with symptoms at shipping |  |  |
|  |  | Ensure that the processes indicated in the check list have been implemented |  |  |
|  | **6.0** | Boxwood and pachysandra plants with Box Blight-like symptoms in production |  |  |
|  |  | Review the process for creating a restricted area for symptomatic plants. View a restricted area if available. |  |  |
|  |  | Ensure that a employee position has been designated to make decisions regarding symptomatic plants. |  |  |

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| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
|  |  | Observe the method(s) of disposal of infected plants match the methods listed in the Module |  |  |
|  |  | Ensure that there is a radius of destruction that occurs around infected plants. |  |  |
|  | **4.0, 4.2** | Records of sampling and testing and plant disposal |  |  |
|  |  | Ensure that records are kept when plants are sampled and tested and/or destroyed |  |  |
|  | **5.3** | Best management practices |  |  |
|  |  | Observe two or three of the BMP’s employed at the nursery to ensure that they are implemented |  |  |
|  | **5.6, 6.2** | Biosecurity and sanitation policies |  |  |
|  |  | Observe two or three of the biosecurity and sanitation policies employed at the nursery to ensure that they are implemented |  |  |

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| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
|  | **4.5** | (only for non-P. ramorum Certified nurseries)  Visitor Policy |  |  |
|  |  | Observe the stated visitor policy and visitors’ log |  |  |

**Nursery Name:**

***C. buxicola* Certification Number:**

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| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
| **I** | **4.1** | **Incoming boxwood and pachysandra plants** |  |  |
|  |  | **(Non-P. ramorum Certified nurseries only)**  Review receiving documentation to confirm that inspections are recorded as described in the Module. |  |  |
|  | **5.1.3, 5.2.2** | **Receiving boxwood and pachysandra Plants from Non-certified Sources** |  |  |
|  |  | Request records of situations when purchased non-certified host plants have been isolated for one active growing season (120 days). If these records so not exist, ensure that all host plants are from Certified nurseries or from international nurseries with certification programs. |  |  |

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| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
|  | **5.5, 5.2.3** | Inspection and Handling of boxwood and pachysandra plants at shipping |  |  |
|  |  | Examine a selection of shipping documentation for boxwood and/or pachysandra plant. Check that the Box Blight certification status has been clearly stated. |  |  |
|  | **5.5.1** | Boxwood and pachysandra plants with symptoms at shipping |  |  |
|  |  | Review a situation where symptomatic host plants were found at shipping and ensure that the processes checked off in the Module were followed. |  |  |
|  |  | Boxwood and pachysandra plants with Box Blight-like symptoms in production |  |  |
|  |  | With the employee that is responsible for deciding to create a restricted area, observe the restricted area and ensure that sanitation and biosecurity procedures are being followed. |  |  |

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| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
|  |  | Observe the method(s) of disposal of infected plants and match the methods to the list in the Module |  |  |
|  |  | Observe the established radius of destruction that is made around host plants that have been found to be infected with *C. buxicola.* |  |  |
|  | **4.0,4.2** | Records of sampling and testing and plant disposal |  |  |
|  |  | Observe records of sampled and tested plants and plants that have been destroyed. |  |  |
|  | **5.3** | Best management practices |  |  |
|  |  | Observe one or two implemented BMP and match it to the list in the Module |  |  |
|  | **5.6, 6.2** | Biosecurity and sanitation policies |  |  |
|  |  | Observe one or two biosecurity and sanitation procedures employed at the nursery and match them to the list in the Module. |  |  |
| **Manual Section** | **Phase 1 *C. buxicola* Standard Section** | **Title/ information required** | **Complete?**  **Yes/No/NA** | **Comments** |
|  | **4.5** | (only for non-P. ramorum Certified nurseries)  Visitor Policy |  |  |
|  |  | Review the visitors’ log, if used, and other methods of controlling visitor movement. |  |  |

1. The isolation area requires a barrier at least 0.5 meters (50 cm) higher than the highest plant adjacent, and/or a two (2) metre (canopy to canopy) host-free buffer. An isolation area shall be separate from the shipping areas with a two (2) meter host free buffer. This area must be indicated on the nursery map(s). [↑](#footnote-ref-1)