

US/CANADA BLUEBERRY FRUIT CERTIFICATION PROGRAM FOR FLORIDA GROWERS

**An Alternative to Fumigation and Phytosanitary
Certification for Blueberry Fruit shipped to Canada**

A Cooperative effort by:

Florida Department of Agriculture and Consumer Services, Division of Plant Industry

AND

United States Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine



Florida Department of Agriculture and Consumer Services • Division of Plant Industry

OBJECTIVES OF THE PROGRAM

- To facilitate the movement of fresh blueberries from areas regulated for *Rhagoletis mendax* (blueberry maggot) to non-regulated areas
- To mitigate the risk of moving blueberry maggot into non-regulated (non-infested) areas
- To provide an alternative to fumigation
- To provide an alternative to phytosanitary certificates

WHAT'S NEW?

Great news!

There have been no changes since the 10th Revision of Directive D-02-04 (effective since February 21, 2020)

<https://www.inspection.gc.ca/plant-health/plant-pests-invasive-species/directives/horticulture/d-02-04/eng/1320046578973/1320046655958>

This PowerPoint will also briefly cover the **California QC1533** program which runs in alignment with the Canadian program

CANADIAN PROVINCES

Regulated (infested) Provinces:

- New Brunswick
- Nova Scotia
- Prince Edward Island

These Provinces already have the Blueberry maggot, therefore certification free from the Blueberry maggot is NOT required.



CANADIAN PROVINCES

**Regulated Provinces
accepting Blueberry
Certification Program
(BCP) Program fruit:**

- Alberta
- Saskatchewan
- Manitoba
- Ontario
- Quebec
- Newfoundland



CANADIAN PROVINCES

British Columbia accepts only FUMIGATED fruit



GROWER RESPONSIBILITIES

- Apply for Participation in Program
- Select Calendar Spray Program (CSP) or Integrated Pest Management (IPM)
- Obtain and Exercise Control of Movement Certification Labels for Shipments - “Stickers”
- Meet Treatment requirements (CSP) or Trapping Requirements (IPM)
- Test Blueberry Fruit for *Rhagoletis medax* (blueberry maggot)
- Maintain Records and provide them upon request

SHIPPER RESPONSIBILITIES

- Ensure that all blueberries originate from approved growers
- Ensure that all blueberry fruit shipments meet U.S. Grade #1 requirements
- Ensure that a Movement Certification Label for Shipments is affixed to shipping documents
- Make records available upon request.

DPI (NPPO) RESPONSIBILITIES

- Provide training to program participants on:
 - Blueberry Maggot Biology and Identification
 - Field monitoring
 - Cultural and Chemical Measures
 - Sampling and Testing as required
- Inspect and approve BCP participants for program participation
- Conduct biweekly compliance monitoring
- Monitor trapping activities

APPLICATION PROCESS


WILTON SIMPSON
COMMISSIONER

Florida Department of Agriculture and Consumer Services
Division of Plant Industry

**APPLICATION FOR APPROVAL TO PARTICIPATE IN
THE BLUEBERRY CERTIFICATION PROGRAM**

Section 581.031(26), F.S.
P.O. Box 147100, Gainesville, FL 32614-7100 / (352) 395-4700

New Participant: ☐ Past Participant: ☐

Name of Establishment: _____ Firm # _____
Mailing Address: _____
Physical Location: _____ Loc. # _____ County: _____
Additional Location: _____ Loc. # _____ County: _____
Additional Location: _____ Loc. # _____ County: _____
Telephone No.: _____ Email: _____
Shipper / Distributor: _____

Conditions for moving fresh blueberry fruit to non-infested areas of Canada under the Blueberry Certification Program:

1. All fresh market blueberry (*Vaccinium* sp.) fruits being moved from Florida to non-infested areas in Canada must be grown under the conditions of the Blueberry Certification Program and be accompanied by a Movement Certification Label.
2. Fruit must be produced by a grower certified by the Florida Department of Agriculture and Consumer Services (FDACS) for movement under the Blueberry Certification Program.
3. The grower must provide locations of each Monitored Production Area to be considered under the program, including the size and the cultivar(s) of blueberries.
4. Records of shipments under the Blueberry Certification Program must be maintained by the certified growers for at least one year after shipment.
5. Appropriate measures must be taken to ensure that the fruit to be exported are packaged and stored in a manner to prevent contamination by quarantine pests and remain practically free of other injurious pests.
6. Movement Certification Labels authorized by the FDACS must be affixed to the commercial invoices or Customs entry invoices accompanying each shipment.

I, _____, the owner/person in possession, care, or control of the above named establishment, have read and do understand all the conditions and obligations stated herein by which I may move blueberry fruit, in accordance with the Blueberry Certification Program, Canadian Directive D-02-04.

Blueberries will be monitored using the following option (pick one):
☐ : Integrated Pest Management ☐ : Calendar Spray

Applicant's Signature _____ Date _____

To be completed by FDACS representative

Approved for Participation in the Blueberry Certification Program (BCP): _____
Participant Number **Leave blank if applicant is new to program _____

Signature of FDACS Representative _____ Date _____

Distribution: Original - Gainesville, Copy - Applicant, Copy - FDACS Representative

FDACS-08202 Rev. 05/21

- **Step One** : Grower/shipper should contact their local DPI Inspector to schedule an appointment to get signed up each year they participate.
- **Step Two**: Grower/shipper needs to complete the [Application to Participate in Blueberry Certification Program FDACS 08202.pdf](#) and submit application to their local DPI inspector. They must indicate which program they intend to participate in, IPM or CSP

APPLICATION PROCESS

- **Step Three:** Grower/Shippers need to review the USDA Compliance Agreement, found [here](#).

The local DPI inspector will discuss the conditions of the compliance agreement with the grower/shipper.

If the local DPI inspector agrees that the producer can meet the requirements, the document is completed, signed, and forwarded to the DPI Certification C/O Terri Hymes. Terri.hymes@fdacs.gov

FORM APPROVED OMB NUMBER 0579-0054	
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE PLANT PROTECTION AND QUARANTINE	
COMPLIANCE AGREEMENT	
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0054. The time required to complete this information collection is estimated to average 1.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.	
1. NAME AND MAILING ADDRESS OF PERSON OR FIRM	2. LOCATION Same as block #1 Participant # _____, Zone # _____
3. REGULATED ARTICLE(S) <i>Blueberry Fruit, Vaccinium sp</i> S: _____, T: _____, R: _____ Phone: _____	
4. APPLICABLE FEDERAL QUARANTINE(S) OR REGULATIONS <i>Canada Import Regulations, CFIA Directive D-02-04, Sections 581.031(26), 581.141, and 581.211 Florida Statutes, Export Program Manual, 7 CFR 353, Plant Protection Act (PPA) (7U.S.C. §7701 et. seq)</i>	
5. <i>We agree to the following:</i> 1. By signing and completing this compliance agreement, the blueberry grower/broker is indicating he/she is willing and able to comply with the terms and conditions specified in the CFIA Directive D-02-04. 2. Provide USDA/DPI with the size, location, cultivar(s) and maps showing exact locations for each field or block he/she wishes to be considered under the program. Number of acres eligible for export under this agreement. 3. Provide USDA/DPI with the names and addresses of the expected shippers/brokers of the blueberries, if other than the grower. 4. Undertake all required administrative procedures, pest elimination procedures, field monitoring, chemical, and cultural controls, grading, fruit sampling and testing, and record keeping as specified in the CFIA Directive D-02-04. 5. Representatives of the FDACS/DPI and/or USDA-PPQ will conduct bi-weekly audit inspections during the blueberry harvest season as directed by CFIA Directive D-02-04. Audit inspections will be conducted during normal business hours. 6. Export certification labels authorized by the USDA/DPI must be affixed to the commercial invoice or other shipping documents accompanying each shipment. 7. Records of shipments under the CFIA Directive D-02-04 must be maintained for at least one year by the grower for each certified production area. These records are to be made available on request to the USDA/DPI and CFIA officials. 8. Brokered blueberries must be obtained from growers who are also under compliance with this program. Shipping documents or receipts for those blueberries must include the grower's certification labels and be kept on file for a period of one year. 9. Name and address of expected shippers/brokers should be provided upon signing this compliance agreement. 10. Appropriate measures must be taken to ensure each shipment for export is packaged and stored in a manner to preclude contamination by injurious pest. 11. Permit access to premises and appropriate records by a representative of the USDA/DPI. 12. Approval must be renewed each year and can be revoked due to non-compliance. 13. Failure to remit required inspection fees in a timely manner may result in the delay of certification services. 14. This agreement may be immediately cancelled or revoked for noncompliance. Violation of these Federal regulations can result in a Civil Penalty, a jail sentence, or both. Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §7701 et. seq) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, a one-year prison term, or both. Additionally, any person violating the PPA may be assessed civil penalties of up to \$250,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.	
6. SIGNATURE	7. TITLE
8. DATE SIGNED	
9. AGREEMENT NO.	
10. DATE OF AGREEMENT	
The affixing of the signatures below will validate this agreement which shall remain in effect until canceled, but may be revised as necessary or revoked for noncompliance.	
11. PPQ OFFICIAL (Name and Title)	12. ADDRESS USDA, APHIS, PPQ 8100 NW 15th Place Gainesville, FL 32606 Tel: 352-313-3047 / Fax: 352-313-3041
13. SIGNATURE	
14. STATE AGENCY OFFICIAL (Name and Title)	15. ADDRESS Florida Department of Agriculture / Division of Plant Industry PO Box 147100 / 1911 SW 34th Street, Gainesville, FL 32614-7100 (352) 372-3505
16. SIGNATURE	

OBTAINING MOVEMENT CERTIFICATION LABELS



WILTON SIMPSON
COMMISSIONER

Florida Department of Agriculture and Consumer Services
Division of Plant Industry

REQUEST FOR AUTHORIZATION TO PRINT CERTIFICATES OF INSPECTION

Section 581.031 (21), F.S. / Rule 5B-2.0011, F.A.C.
Referenced in Rule 5B-2.004, F.A.C.

P. O. Box 147100, Gainesville, FL 32614-7100 / (352) 395-4700

Please print and fill out form completely. Must be submitted by the Inspector.

Date Submitted: _____ Firm #: _____ Firm Phone #: _____

Firm Name: _____

Firm Mailing Address: _____ Firm Email: _____

The above firm request authorization to use the below indicated images of Certification of Inspection. These images may be presented to a printer of your choice or self-printed. If authorized, a letter of authorization with specific instructions will be sent to the email address provided.

Certificate Type	Image Selected	Compliance Agreement Date	Certificate Type	Image Selected	Compliance Agreement Date
AZ Cut Foliage or Aquatics			Nursery		
*AZ Mail Order OIA			Stock Dealer (SD)		
*CA Bulb			NC Tropical Spiderwort		
*CA Consolidation Form (SD)			Tomato/Tobacco/Lisianthus		
CA Hydrilla			*TX/LA Consolidation Form (SD)		
CA Mamey Fruit			*TX/LA Burrowing Nematode/Diaprepes		
*CA Nematode			TX Caribbean Fruit Fly Host Plants		
Citrus Gift Fruit Shippers			TX Red Palm Mite		
Cut Fern			USDA Canadian Blueberry- Stickers only		
Firewood			USDA Canadian Greenhouse (GCP)- Stickers only		
*LA Burrowing Nematode			USDA Canadian Greenhouse Interfacility-Stamp only		
MS Apple Snail			USDA Imported Fire Ant (IFA)		
***			***		
*** List name of other images requested.					
* Nematode Associated					

CERTIFICATES ARE VALID FOR BOTH IN-STATE AND OUT- OF-STATE USE as they may apply.

I/We, the undersigned, understand that all prints or reproductions of the Division's Certificates of Inspection remain the property of the Division until used. Certificates shall not be printed or reprinted until a letter of authorization is received from the Division. Any fraudulent use, unauthorized reproduction, or alteration of these certificates may result in a fine and/or criminal prosecution under section 581.211 of the Florida Statutes.

Signature: Owner / Manager

Signature: Inspector

Print Name Date Signed

Print Name DPS #

FDACS-08086 Rev. 01/23

- **Step One:** Once approved, grower/shippers need to complete and submit to the local DPI inspector, a [Request for Authorization to Print Certificates \(Tags\) - DACS 08086.pdf in](#) order to obtain the required shipping **Canadian Blueberry** labels (Movement Certification Labels (MCL's)).
- **Step Two:** The Request for Authorization is verified by the local DPI inspector and submitted to the DPI Certification Specialist Office in Gainesville.

OBTAINING MOVEMENT CERTIFICATION LABELS

Step Three: Once the request is received, the DPI Certification Office will authorize the printer of the grower's choice to print Movement Certification Labels. DPI Certification Office will provide printer with the appropriate artwork. The applicant pays the printer.

Step Four: The pre-numbered labels will be delivered to the local DPI inspector for distribution to the program participant. The DPI inspector will ensure all numbered labels are accounted for and distributed to program participant.



UNITED STATES DEPARTMENT
OF AGRICULTURE

Serial Number:

This shipment of fresh blueberries meets the
requirements of the Canada/United States
Blueberry Certification Program.

State and License # FL_____

LABELING REQUIREMENTS

GROWER RESPONSIBILITIES:

- Producers must exercise strict control over the use of Movement Certification Labels.
- Records must be kept of serial numbers of labels in stock and of labels used for shipments.
- **Labels not yet affixed to an invoice should not be given to anyone other than a person authorized by and employed by the approved grower.**

SHIPPER RESPONSIBILITIES

- Ensure that a Movement Certification Label is affixed to the shipping document provided by each grower.
- Keep the grower's invoice on file for a minimum of one year
- Apply assigned labels to the bill of lading accompanying the shipment to Canada.
- Ensure harvest date is on each shipping document

DPI (NPPO) RESPONSIBILITIES

- Authorize printer of grower's choice to print movement certification labels, assign grower and label numbers
- Distribute pre-numbered movement certification labels, account for all movement certification labels used during the season and collect all unused movement certification labels at the end of the shipping season.

TWO PROGRAM CHOICES FOR CANADA

The primary difference between the two programs is trapping vs spraying insecticides.
The remainder of the protocol remains the same.

CALENDAR SPRAY PROGRAM (CSP)

- **Spray Regime**
- Fruit Extraction/Testing
- Responses to finding blueberry maggot flies or larvae
- Documentation

INTEGRATED PEST MANAGEMENT (IPM)

- **Trapping Guidelines**
- Blueberry Maggot Fly Identification
- Fruit Extraction/ Testing
- Responses to finding blueberry maggot flies or larvae
- Documentation

CANADA - CALENDAR SPRAY PROGRAM

- This program is selected by growers intending to also meet the requirements of another state or country, however other state and country protocols vary from this Canadian Blueberry Program. Ask your local Division Inspector for detailed information.
- For the Canadian Blueberry program:
 - The first insecticide application must be made within 5 days of expected blueberry maggot emergence ca. April 1st
 - Subsequent sprays must be made at 5–12-day intervals, depending on the insecticide. Spray continues to end of harvest
 - Spray must be labeled for blueberry maggot and must be used at the rates, intervals and dosage indicated on the label
 - The spray applications must be recorded on the Bi-Weekly Monitoring Summary [Blueberry Bi-Weekly Trapping Summary FDACS 08421.pdf](#)

CALIFORNIA – QCI533 SPRAY PROGRAM

- Many participants in the Canadian Blueberry Program also choose to send fresh blueberries to California
- The California Blueberry program:
 - Targets: Blueberry maggot and plum curculio
 - Participants must inform DPI of the intent to ship to California to ship under the master QC-I533 permit
 - The California data sheet must be filled out with the district inspector. An approved shippers list is compiled for California and only those shippers are allowed entry
 - Pre-harvest applications shall begin after petal fall and continue every seven days from petal fall through harvest
 - Spray must be labeled for blueberry maggot and plum curculio and must be used at the rates, intervals and dosage indicated on the label
 - The spray applications must be recorded on the Bi-Weekly Monitoring Summary [Blueberry Bi-Weekly Trapping Summary FDACS 08421.pdf](#)
 - In addition to the sprays, regular sugar/hot water testing and sampling through harvest period
 - If spray program is not conducted, fumigation must occur to enter California
 - Shipment must be accompanied by a State Phyto with appropriate additional declaration
 - Truck must be sealed by DPI before exiting the state

INTEGRATED PEST MANAGEMENT PROGRAM INFORMATION

- Trapping Guidelines
- Blueberry Maggot Identification
- Fruit Testing
- Responses to finding blueberry maggot adults or larvae
- Documentation
- Selection for organic production areas



IPM TRAPPING REQUIREMENTS

GROWER RESPONSIBILITIES:

Growers are required to conduct trapping activities in their production areas to monitor for the presence of adult Blueberry Maggot flies (*Rhagoletis mendex*).



IPM TRAPPING REQUIREMENTS

GROWER RESPONSIBILITIES:

Step One: Pherocon AM traps baited with ammonium acetate should be purchased and placed into the monitored production area at least two weeks **prior** to harvest by the grower.

The number of traps to be placed in the monitored production areas is determined by the trapping density table.

Trapping Density Table

Acres	# of traps
Less than 5	4
6 - 15	6
16 - 40	15
≥ 40 acres	1 trap/2.5 acres (max 20)

- Traps may be purchased from any supplier. They are also available at Great Lakes IPM, Inc.
www.greatlakesipm.com

IPM TRAPPING REQUIREMENTS

GROWER RESPONSIBILITIES:

Step Two: Traps must be monitored at least once a week by the grower, starting when the traps are placed in the fields and continuing until the end of harvest. The frequency must be increased to twice weekly starting just before fruit color.

Step Three: Growers must complete the Blueberry Bi-Weekly Monitoring Summary [Blueberry Bi-Weekly Trapping Summary FDACS 08421.pdf](#)

Step Four: Traps must be replaced a minimum of once every 3 weeks or more frequently if traps are damaged or filled with debris or removed for suspect fly identification. As the NPPO, Florida requests traps be replaced every 2 weeks

Step Five: Growers are required to maintain trapping records and collected traps for inspection by their DPI Inspector.

IPM TRAP PLACEMENT - Highbush



- For highbush blueberry or other large plants, the traps must be suspended at mid-canopy of the plant.
- The traps must be made visible by removing twigs and foliage in the vicinity of the trap.
- The traps must be placed in a "V" shape (approximately 45-degree angle) with the apex and yellow sticky surface facing the ground.

TRAP PLACEMENT - LOWBUSH



- For lowbush/wild blueberry or other small plants, the traps must be suspended approximately 4 - 6 inches above the plants.
- At least some traps must be placed near the perimeter of the fields, preferably in weedy sites or sites sheltered from the prevailing winds.

IPM TRAPPING DENSITY TABLE

For each Monitored Production Area

Acres	# of Traps
Less than 5	4
6 - 15	6
16 - 40	15
≥ 40 acres	1 trap/2.5 acres (max 20)

BLUEBERRY MAGGOT FLY IDENTIFICATION



- Wings with bold, black bands
- Body is black with tiny white spot on thorax, and white stripe on side
- Additional Images [here](#)

BLUEBERRY MAGGOT FLY ON STICKY TRAP



FALSE POSITIVES?



- The blueberry maggot, *Rhagoletis mendax*, and the apple maggot, *Rhagoletis pomonella*, are not easily distinguishable from each other.
- Both species occur in Florida.
- If a fly fitting this description is detected call the DPI Inspector for further direction

TRASH FLIES



- “Trash” flies are also attracted to the yellow sticky traps.
- Note clear wings, without the bold black bands typical of Blueberry Maggot.
- All used traps should be maintained for inspection by the DPI inspector.

FOR CALIFORNIA, *CONOTRACHELUS NENUPHAR* (PLUM CURCURLIO WEEVIL)

A target pest for QCI533. This pest could be detected in the blueberry smash process



FRUIT EXTRACTION: TESTING FRUIT FOR BLUEBERRY MAGGOTS

- Sampling Rates
- Test Procedures
- Must be conducted for either Program CSP or IPM



SAMPLING RATE FOR FRUIT TESTING

Number of acres	Sample size/No. of containers (e.g. pints, quarts)
Up to 50 acres	Minimum 1 1-liter (2 pints) sample
≥ 50 acres	2 1- liter sample (4 pints)

TESTING FRUIT FOR BLUEBERRY MAGGOTS

Fruit Testing

- Each managed production area must be sampled at least once per week.
- Each sample consists of a minimum of one 1-liter sample of culled or ungraded blueberries. If area is greater than 49 acres (20 hectares), one additional liter sampling must be taken
- Samples must be collected prior to grading and tested within 24 hours of being picked.
- Producers are required to use either a brown sugar, salt floatation or boiling water testing method
- Brown sugar testing is the most common method used

TESTING FRUIT FOR BLUEBERRY MAGGOTS

Brown sugar / salt flotation tests

1. Prepare a concentrated sugar or salt solution:
 - A. Mix Sugar/Water concentration = 3.5 kg brown sugar per 20 liters of water (approx 1.5 lb brown sugar to 1 gallon of water)
 - B. Dissolve 1 liter salt per 16 liters of water (approx. 5 pounds salt per 4 gallons of water)
2. Place sampled blueberries into a container. Large samples subdivided into smaller subsamples and tested individually.
3. Gently crush berries with a utensil or your fingers. Key word is GENTLY, otherwise, run the risk of crushing any potential larvae inside the fruit
4. Add enough sugar or salt solution to completely cover crushed blueberries. Solution should be approximately 1 inch above crushed berries.

TESTING FRUIT FOR BLUEBERRY MAGGOTS

Brown sugar / salt flotation tests, Continued

5. Gently agitate crushed berries in the solution
6. Allow mixture to stand 10-15 minutes to allow most of the foam to dissipate.
7. Examine the surface of the solution to see if any potential larvae/pupae have floated to the surface
8. If any are alive, you will likely see movement as they wiggle in the solution
9. Gently transfer any insect larva to a labeled/dated vial.
10. Submit specimens to authorized expert.

FLOATING LARVAE IN “BROWN SUGAR TEST” SOLUTION

Look carefully for small
(1/4") whitish maggots
floating on surface



TESTING FRUIT FOR BLUEBERRY MAGGOTS

Hot Water / Boil test

1. Place 1 liter or 2 pints of blueberries in a pot.
2. Nearly cover the blueberries with water.
3. Bring berries and water to a frothy boil and boil for at least 1 minute.
4. Empty berries into a 4 mesh per inch screen.
5. Gently crush berries in screen with the back of a spoon. (see next slide)
6. Rinse berries with cold running water and collect water and solids in a container with a dark bottom.
7. Allow the debris to settle and decant floating solids and most of the water.
8. Repeat rinsing and decanting until water is clear.
9. White maggots will be visible against the dark bottom of the pan.

CRUSHING BLUEBERRIES USING THE “HOT WATER / BOIL TEST”

- Gently crush all berries to release any maggots that may be present
- Rinse crushed berries into a dark bottom container.



DOCUMENTATION CANADIAN PROGRAM

All activities related to the Canadian Blueberry Certification Program must be documented. The same forms are also used to document audits for the California program

MONITORING DOCUMENTATION



Florida Department of Agriculture and Consumer Services
Division of Plant Industry

BLUEBERRY CERTIFICATION PROGRAM BI-WEEKLY MONITORING SUMMARY

Section 581.031(26)

P. O. Box 147100, Gainesville, FL 32614-7100 / (352) 395-4700

Trap Type: _____ Date Starting Monday: _____

MPA (Monitored Production Area #): _____ Trapping Specialist: _____

(fill-in blanks as applicable)	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	Total No. of Traps:
Integrated Pest Management (IPM)															
Traps Placed															
Traps Examined															
Calendar Spray Program (CSP)															
Treatments Conducted															
Must be completed for either IPM or CSP															
Sugar/Hot Water Testing															
Number of Rhagoletis Recovered															

Note:

- Traps must be placed at least 2 weeks prior to beginning of harvest.
- Traps must be inspected for blueberry maggot flies a minimum of once per week, starting when traps are placed in the fields and continuing through end of harvest. The frequency of trap monitoring must be increased to twice weekly starting just before fruit color.
- Traps must be replaced a minimum of once every 2 weeks - more frequently if traps are damaged, filled with debris, or removed for identification of flies.
- If grower is using the Calendar Spray Program (CSP), spray records must be made available upon request.
- To qualify for both the Canada and California programs, treatment must begin at petal fall and continue every seven days through harvest. Product must be labeled for plum curculio and/or blueberry maggot, either alone or in combination.

Distribution: Original - Gainesville, Copy - Participant/Cooperator, Copy - District Inspector

FDACS-08421 Rev. 05/21

Used in Both Canadian and California Blueberry Certification Programs [Blueberry Bi-Weekly Trapping Summary FDACS 08421.pdf](#)

- If operating under IPM, Record trapping and test data on appropriate date.
- If operating under CSP, List Spray applications
- For either program, Fruit testing/extraction must be conducted and listed.
- Records should be maintained for review by DPI inspector.

DPI RESPONSIBILITIES:

Bi-weekly compliance monitoring of the growers:

- Review trapping records
- Collect and inspect used traps
- Testing of blueberry fruit for larvae
 - (Inspectors should use the [Blueberry Auditing Checklist FDACS 08203.doc](#))
- Sampling and testing as required by the [Canadian Directive D-02-04 10th Revision \(effective 02-21-2020\)](#)
- DPI will perform first sample test

DPI RESPONSIBILITIES:



Florida Department of Agriculture and Consumer Services
Division of Plant Industry

BLUEBERRY CERTIFICATION PROGRAM
AUDITING INSPECTION CHECKLIST

Section 581.031(26), F.S.

P. O. Box 147100, Gainesville, FL 32614-7100 / Phone: (352) 395-4700

WILTON SIMPSON
COMMISSIONER

Please select one: ☐ Grower **or** ☐ Shipper/Distributor

- Date of audit: _____
- Monitored Product Area (MPA) #: _____
- Name of Establishment: _____ Location: _____
- Management Program: ☐ Integrated Pest Management (IPM) **or** ☐ Calendar Spray Program (CSP)

FOR GROWERS ONLY

IPM:

- Number of traps placed and acres: _____
- Monitoring Summary report available for review: _____

Monitoring Summary is complete and trapping is in compliance with Canadian Directive : _____

Number of maggots trapped: _____ Dates when maggots trapped _____

NPPO/FDACS-DPI notified: _____

CSP:

- Dates of insecticide treatments: _____

Treatment records available: _____

Individual conducting treatments: _____

IPM & CSP:

- Monitoring Summary is complete and fruit extraction is in compliance with Canadian Directive: _____
- Results of grower fruit extraction: _____

Dates of FDACS personnel fruit extraction: _____

- Results of FDACS personnel fruit extraction: _____
- Cultural controls implemented: Disposal of culled fruit: ☐ Yes ☐ No
- Weed suppression: ☐ Yes ☐ No

FOR SHIPPERS AND GROWERS

- Number of Shipping Labels Used (since last audit): _____
- Fruit graded: ☐ Yes ☐ No
- Movement Certification Labels properly safeguarded and accounted for: ☐ Yes ☐ No
- Records Retained for shipping, label use, trapping, treatments and sampling: ☐ Yes ☐ No

Comments: _____

Next Inspection Scheduled: _____ **Signature of FDACS Representative:** _____

Distribution: Original – FDACS Representative, Copy – Grower/Shipper

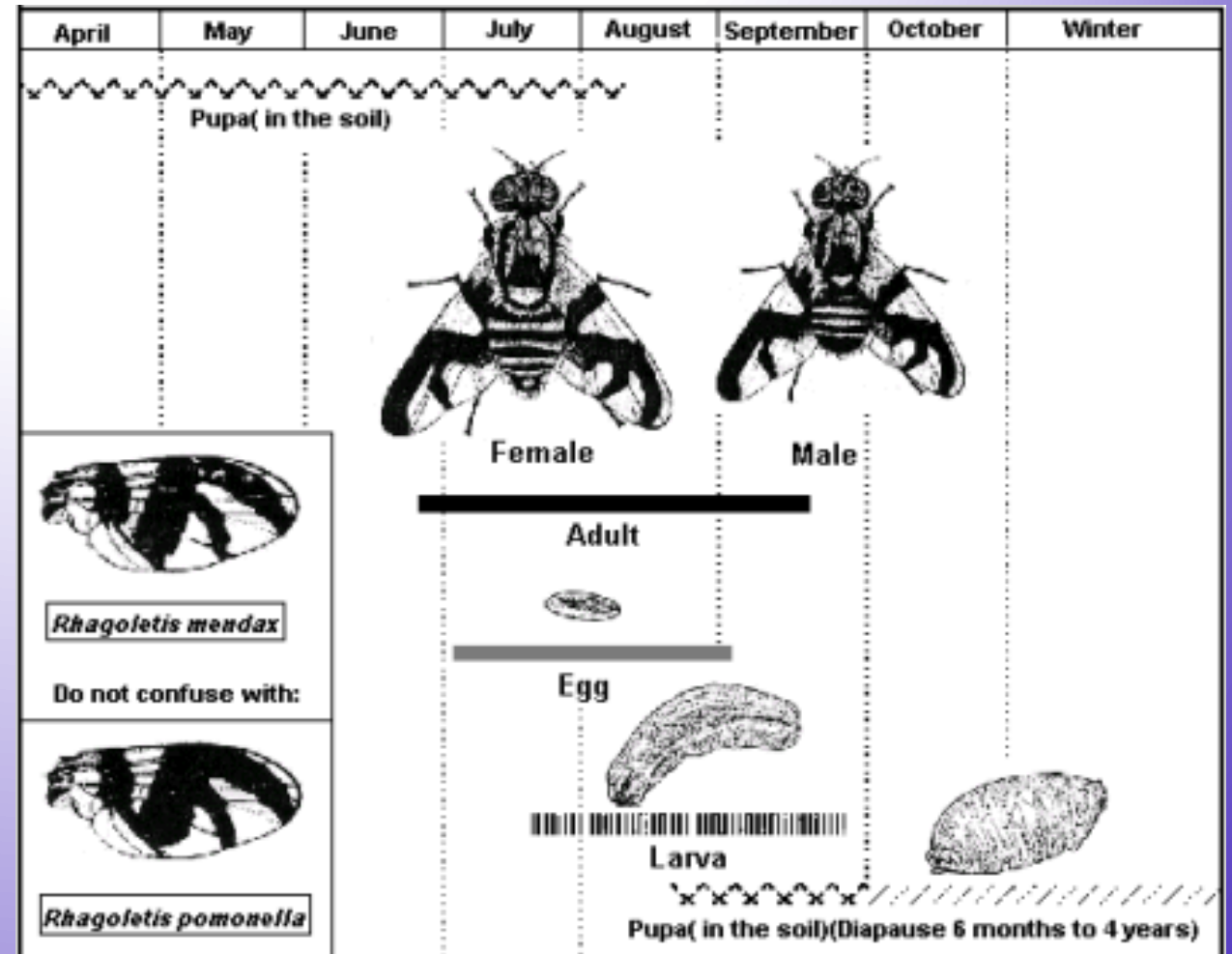
FDACS-08203 Rev. 05/21

Blueberry Certification Program Auditing Inspection Checklist (DACS-08203)

- Used for monitoring Canadian Blueberry program participants activities, as well as for other national and international blueberry programs.
- Should be completed at each inspection
- Maintain records in the DPI inspector office for 1 calendar year

THE GROWER HAS FOUND AN ADULT SUSPECT FLY OR LARVAE/PUPAE, WHAT DO THEY DO?

- If you have a suspect **adult fly**, do not remove the fly from the trap, install a new trap and safeguard the one with the fly. Contact your local DPI inspector.
- If you have found a **larvae/pupae** during the water or brown sugar test, place the larvae/pupae in a vial of alcohol. Contact your local DPI inspector for identification and further instructions.



THE GROWER HAS FOUND A CONFIRMED ADULT BLUBERRY MAGOT FLY

- When an adult blueberry maggot fly is found in a trap within a Monitored Production Area or in abandoned or wild areas in the vicinity of a Monitored Production Area, the plants must be sprayed within five days.
- A second spraying must be carried out five to twelve days after the application of the first spray. Subsequent sprays must be applied within five days if another blueberry adult maggot fly is trapped or until shipping ceases.
- Insecticides approved for use on blueberries against blueberry maggot must be used at the rates, dosages and intervals specified on the pesticide label and according IFAS recommendations.

THE GROWER HAS FOUND A SUSPECT BLUEBERRY MAGOT LARVAE OR PUPAE

- Contact your DPI representative immediately.
- DPI will send the sample in for confirmation
- If one **larvae/pupae** found in any sample in the Monitored Production Area is confirmed to be a Blueberry Maggot, the grower may not ship to **non-regulated** areas of Canada for the remainder of the season.



WHERE DO I SEND FORMS?

The following forms must be sent to the Gainesville DPI Office:

- Application For Approval To Participate In The Blueberry Certification Program
 - Must be approved at least 2 weeks before 1st harvest
- Request For Authorization To Print Certificates (Tags) Of Inspection
- USDA Blueberry Compliance Agreement

Contact Information:

Division of Plant Industry
Bureau of Plant and Apiary Inspection

P.O. Box 147100
Gainesville, FL 32614-7100
Fax: 352-395-4618

E-mail: Terri.Hymes@fdacs.gov 352-395-4718



NOTE: The above forms may also be submitted to the inspector who will forward them to the Gainesville office. The Bi-Weekly Trapping Summary is submitted to your local DPI inspector along with used traps.

Other Documents: [Blueberry Certification Program Auditing Inspection Checklist \(DACS-08203\)](#) (used by the DPI Inspector)

ASSOCIATED FEES:

Each visit after initial sign up requires a Special Inspection fee of \$50.00 plus mileage.



QUESTIONS?

Contact your local plant inspector

<https://www.fdacs.gov/Divisions-Offices/Plant-Industry/Bureaus-and-Services/Office-Locations/Plant-Inspector-Directory>

Or DPI Export Certification Specialist

Christine Zamora

Christine.Zamora@fdacs.gov

(352) 395-4719

To find the Canadian Directive go here:

<https://www.inspection.gc.ca/plant-health/plant-pests-invasive-species/directives/horticulture/d-02-04/eng/1320046578973/1320046655958>

To find the California QC1533 go here:

[CDFA Letterhead \(Color\) \(ca.gov\)](#)

