



Department  
of Agriculture  

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STATE OF HAWAII

COFFEE BERRY BORER PESTICIDE SUBSIDY PROGRAM 2020-21 ANNUAL APPLICATION  
For Subsidy For Purchases made July 1, 2019 through June 30, 2020

Form PPC20-01 expires 6/30/2021

**FOR THE SURVEY MONKEY ONLINE APPLICATION**

Go to <https://hdoa.hawaii.gov/pi/main/cbbsubsidy/>

Aloha Coffee Farmers,

The Hawaii Department of Agriculture (HDOA) Coffee Berry Borer (CBB) Pesticide Subsidy Program was established by Act 105, Session Laws of Hawaii 2014, to assist Hawaii coffee farmers with the cost of pesticides containing the fungus, *Beauveria bassiana* (i.e. BotaniGard® and Mycotrol®) known to control CBB. In 2017, the Hawaii Legislature extended the program through 6/30/2021.

Currently, applications are accepted until 6/30/2021 for **purchases made from 7/1/2019 through 6/30/2020**. For purchases made during this time period, reimbursement is available for up to 50% of out-of-pocket costs for *Beauveria bassiana* products and depending on the number of applicants and available funds, up to a maximum of \$600 per acre and \$6,000 per farm. Any applications received or postmarked after 6/30/2021 will not be eligible for reimbursement.

If you have eligible purchases and wish to apply for just the subsidy, please complete Section I (Farm Owner/Manager Information) and II (Program Impact). If you already applied for the subsidy for this year and would like to provide information on CBB management on your farm, please complete Section II for research and extension purposes.

It will take about 20 minutes to complete the Grower Survey. You will need to provide your contact information, tax map key (TMK) number, total harvested cherry yield for 2019/20 season, three numbers from your harvested cherry CBB% damage from mid 2019/20 season, and other general production and economic information about your farm. If you own more than one farm, one application is required for each GET tax entity.

**If you are using this as a guide to complete the online application**, once you start the online application, you cannot save your responses and return at a later time. Be sure to click the "DONE" button at the end to record your responses. You will be contacted by email with a signature page and request for receipts.

**If you choose to complete the application on paper**, contact the CBB Pesticide Subsidy Program office at 808-323-7578 or by email at [hdoa.cbb@hawaii.gov](mailto:hdoa.cbb@hawaii.gov) to submit your application and receipts.

**For new applicants:** a Driver's License or State issued ID, your State of Hawaii General Excise Tax ID Number, and your Social Security Number or Federal Tax ID are required. If your name is not listed as an owner or lessee on the TMK information provided by the County Real Property Tax Office, you will need to provide a copy of your lease.

Thank you for taking the time to share your experience managing CBB on the Growers Survey.



**HAWAII DEPARTMENT OF AGRICULTURE**  
**COFFEE BERRY BORER PESTICIDE SUBSIDY PROGRAM 2020-21 ANNUAL APPLICATION**  
 For Subsidy For Purchases made July 1, 2019 through June 30, 2020

<b>Section I. Farm Owner/Manager Information</b>				
Applicant Name: (please print first name & last name)				
Farm Owner Name(s):			Date:	
Farm/Business Name:			Doing Business As:	
Phone Number:		Preferred Contact Method:		<input type="checkbox"/> Phone <input type="checkbox"/> Email
Email Address:			# of Acres in Coffee:	
Farm Address:			Tax Map Key #(s):	
City:	State:	Zip:		
Mailing Address: (if different from farm address)				
City:	State:	Zip:		
<b>Farm Manager (If other than owner)</b>				
Farm Manager Name:				
Phone Number:		Email Address:		
Mailing Address:				
City:	State:		Zip:	
<p>Hawaii Department of Agriculture shall maintain the confidentiality of the information submitted pursuant to the CBB Pesticide Subsidy Program to the extent permitted by law. The disclosure of government records in the State of Hawaii is governed by chapter 92F, Hawaii Revised Statutes.</p> <p>I understand HDOA requires original documentation of costs for purchasing pesticides that contain <i>Beauveria bassiana</i>, a fungus know to control the coffee berry borer, and that HDOA may contact me with important information about CBB. Information gathered for Program Impact will not be shared on an individual level; only summarized results will be shared with the State Legislature, CBB Task Force, UH CTAHR, coffee growers, and coffee organizations.</p> <p>Further, I shall indemnify and hold harmless the State and County of Hawaii, its officers, agents, and employees from all claims arising out of or resulting from the pesticide purchased.</p>				
Applicant Signature:		Date:	Rate the Process: 1 (easiest) to 5 (most difficult)	
HDOA CBB Subsidy Program: Phone (808)323-7578 email: hdoa.cbb@hawaii.gov Mailing Address: PO Box 226, Captain Cook, HI 96704 82-6130 Mamalahoa Hwy, Rm #7, Captain Cook, HI 96704 <b>NOTE: Incomplete or incorrect information may lead to a delay in processing the application.</b>				
For Office Use Only: Time/Date Received		TMK(s) Verified by/on		Grower Survey completed: <input type="checkbox"/>
Receipt(s) Total	x	0.50	Approved Reimbursement Amount:	
V8 <input type="checkbox"/>	Copied Original Receipts <input type="checkbox"/>	Government ID on file <input type="checkbox"/>	Approved Date:	Date Submitted for Reimbursement:

The information provided by the applicant for the following questions is voluntary; however, it is vital for assessing the effectiveness and impact of the CBB subsidy and educational programs as well as for the HDOA's report to the Legislature.

**Section I. Farm Owner/Manager Information (continued)**

1. **How did you learn about this program?**
  - CTAHR
  - HDOA
  - Applied previously
  - Other Farmers
  - Coffee Organizations
  - Vendors
  - Processors
  - Other (please specify) \_\_\_\_\_
  
2. **Where do you get information to control CBB? Select as many as you use.**
  - www.HawaiiCoffeeEd.com website
  - Your coffee organization webpage/newsletter
  - CTAHR workshops
  - Your coffee organization workshops
  - Talking with CTAHR staff
  - Talking with other coffee growers
  - Talking with HDOA staff
  - Talking with processors/millers
  - HDOA webpage for CBB
  - Other web based information
  - 2018 CBB Conference
  - Other (please specify) \_\_\_\_\_

**Section II. Program Impact**

**Part 1. Information About Your Coffee Farm**

1. **What was your total cherry yield in lbs for the 2019-20 harvest season?** \_\_\_\_\_
  
2. **What percent do you sell as:** % cherry \_\_\_\_\_ % parchment \_\_\_\_\_ % green \_\_\_\_\_  
 % roasted \_\_\_\_\_ % not sold \_\_\_\_\_
  
3. **What is the average elevation in feet of your farm?** \_\_\_\_\_
  
4. **Estimate the total number of coffee trees on your farm** \_\_\_\_\_
  
5. **What is the normal tree spacing on your farm ( e.g. 8 by 8 ft.)?**  
 \_\_\_\_\_ Feet between trees within the row.  I do not have clear rows.  
 \_\_\_\_\_ Feet between rows.  Other (specify) \_\_\_\_\_
  
6. **Estimate the number of grafted coffee trees on your farm** \_\_\_\_\_
  
7. **What varieties of coffee do you grow? If multiple varieties, indicate the % of each variety (to equal 100%).**  
 % Kona Typica \_\_\_\_\_ % Caturra \_\_\_\_\_ % Catuai \_\_\_\_\_ % Others (specify) \_\_\_\_\_
  
8. **What pruning method(s) do you use?**
  - Kona style - each tree pruned every year
  - Stumping by rows (Beaumont/Fukunaga style)
  - Stumping by blocks (dividing farm into 3 or more blocks to better manage CBB)
  - Hedging - top and sides cut
  - Other (please specify) \_\_\_\_\_

**Section II. Program Impact**

**Part 2. CBB Damage**

1. **At the peak of the 2019-20 harvest season, what were 3 of your Harvested Cherry CBB % Damage numbers?**  
 Check your Mill receipts or Estate harvest records \_\_\_\_\_ If not possible, Estimate \_\_\_\_\_

[Harvested Cherry CBB% Damage means that after harvesting the ripe cherry, you or your processor used a process of selecting 50 cherries randomly from your bags. Hand-pulp infested berries and count the number of beans with CBB damage. Divide the number of damaged beans by 100. This is your harvested cherry CBB % damage for that harvest. This method is used by the coffee mills and farmers.]

**Section II. Program Impact****Part 3. CBB Management Strategies****Strategy 1. Sanitization**

Three strategies are recommended to reduce CBB damage: sanitation, sampling/monitoring, and using insecticides. The following questions ask about your use of these strategies.

1. **After the 2019-20 harvest season was completed, when did you strip pick your trees (all immature, ripe, over-ripe and dried cherries (raisins) were removed and destroyed)? Check all that apply.**

- when 5-10% of harvest remained       after harvest       after pruning  
 off-season green berries       multiple times       I don't strip pick my trees  
 Other (please specify) \_\_\_\_\_

2. **What was the frequency of your harvest in 2019-20 harvest season?**

- every 1-2 weeks       every 3-4 weeks       depended on labor availability  
 every 5-6 weeks      Comment \_\_\_\_\_

3. **Do you use trapping in the off-season? (after strip pick; before first spray)**       yes       no

**Section II. Program Impact****Part 3. CBB Management Strategies****Strategy 2: Sampling and Monitoring**

How you monitor CBB on your farm.

1. **What method(s) did you use to monitor CBB on your farm in the 2019-20 season? Select all that apply.**

- 30 trees sampling method       Observation       Trapping  
 None       Other (please specify) \_\_\_\_\_

**Section II. Program Impact****Part 3. Management Strategies****Strategy 3. Spraying**

Spraying commercial *Beauveria bassiana* and other insecticides.

1. **Which *Beauveria bassiana* did you spray ?**

- I use BotaniGard® ES       I use Mycotrol® WPO       I use both.

2. **When did you START spraying in the 2019-20 season?**

- January       March       May       July       September       November  
 February       April       June       August       October       December  
 I spray year-round.       Comment \_\_\_\_\_

3. **How do you decide when to STOP spraying?**

- most CBB are in the CD position       schedulec       observation  
 harvesting takes over my labor       Comment \_\_\_\_\_

4. **How have your techniques changed as you improve your CBB management system?**

- decreased total # of sprays       concentrated sprays early-season when most CBB is in the A/B alive position  
 intensified sanitation       changed pruning style  
 Comment \_\_\_\_\_

5. **If the current program to reduce the cost of BotaniGard® or Mycotrol® were discontinued, and you had to pay full price,**

- Continue same best practices for CBB control       Spray less than 32 oz. per acre  
 Spray less frequently       Spray fewer times per year  
 Manage CBB with intensive sanitation only  
 Other (please specify) \_\_\_\_\_

6. **Have you mixed other products with *Beauveria bassiana* effectively?**

- foliar fertilizers       repellents  
 insecticides       other \_\_\_\_\_

**Section II. Program Impact**

**Part 4. Farm Costs and Profits**

Questions related to the impact of CBB on your farms costs and profits

1. How is CBB impacting your other farm costs compared to before CBB infested your farm? Please rate the following six

	N/A or no impact	1=Least impact	2	3	4	5	6=most impact
Hired labor (including to spray)							
Farmer/Operator labor							
Fertilizer (to offset CBB \$ loss)							
Insecticides							
Equipment							
Fuel and utilities							
Maintenance on trees and farm							
Contract farm/processing work							

2. What % of your household income is your farm income? \_\_\_\_\_  
 What % of your farm business income is coffee? \_\_\_\_\_

3. How much Revenue, Expenses, and Net Profit for coffee did your farm have in 2019? (check 1 box per column)

	Revenue	Expenses	Net Profit
less than \$1,000			
\$1,000 - \$9,999			
\$10,000 - \$24,999			
\$25,000 - \$49,000			
\$50,000 - \$99,999			
\$100,000 - \$249,999			
\$250,000 or more			
I prefer not to answer			

In anticipation of the end of the CBB Subsidy after 2021, I am increasing coffee revenue to offset *Beauveria bassiana*

4. costs by: (check all that apply)

- Increasing coffee price
- Increasing fertilizer
- Other (please specify) \_\_\_\_\_
- Planting coffee in under-utilized areas
- Diversifying crops
- Keeping CBB % low
- Replanting with grafted coffee to increase y

**Section II. Program Impact**

**Part 5. Farmers' Comments**

1. What other pests of coffee are causing concern? Check all that apply.

- Black Twig Borer
- Little Fire Ant
- Cercospora
- Anthracnose
- Mites
- Coffee Root-knot Nematode
- Slugs and snails (Rat Lung Worm)
- Green Scale and Sooty Mold
- Banana Moth
- Other (please specify) \_\_\_\_\_

2. Do you have observations on CBB control that you want to share? (e.g. border barrier method, electro-static sprayer, spraying weekly for a month)

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3. What research do you want done about the CBB problem or other pests & diseases of coffee?

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Thank you for participating and sharing your experience with CBB!