



COFFEE BERRY BORER PESTICIDE SUBSIDY PROGRAM 2018-19 ANNUAL APPLICATION

For Subsidy For Purchases made July 1, 2017 through June 30, 2018

Form PPC18-01 expires 6/30/2019

USE THIS AS A GUIDE TO THE ONLINE APPLICATION

Available online at <https://www.surveymonkey.com/r/NT62HLW>

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 6/30/2019 for **purchases made from 7/1/2017 through 6/30/2018**. 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 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 6/30/2019 will not be eligible for reimbursement.

If you have eligible purchases and wish to apply for 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 do for research and extension purposes.

It will take about 20 minutes to complete the application. You will need to provide your contact information, tax map key (TMK) number, total harvested cherry yield for 2017/18 season, 3 harvested cherry CBB% damage #s from mid 2017/18 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 and provided an appointment date and time.

If you choose to complete the application on paper, contact the CBB Pesticide Subsidy Program office at 808-323-7578 or email at hdoa.cbb@hawaii.gov to schedule an appointment.

Bring these required documents to your appointment: original receipts, 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. 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.



HAWAII DEPARTMENT OF AGRICULTURE
COFFEE BERRY BORER PESTICIDE SUBSIDY PROGRAM 2018-19 ANNUAL APPLICATION
 For Subsidy For Purchases made July 1, 2017 through June 30, 2018

Section I. Farm Owner/Manager Information				
Applicant Name: (please print first name, middle initial, 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:		
Farm Manager (If other than owner)				
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)
<p>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</p> <p>NOTE: Incomplete or incorrect information may lead to a delay in processing the application.</p>				
For Office Use Only: Time/Date Received		TMK(s) Verified by/on		Notes:
Receipt(s) Total	x	0.50	Approved Reimbursement Amount:	
V8 <input type="checkbox"/>	Copied Orig Invoices <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 vitally necessary for assessing the effectiveness of the CBB subsidy program and for HDOA's report to the Legislature.

Section I. Farm Owner/Manager Information (continued)

1. **How did you learn about this program?** Applied previously
 CTAHR HDOA Other Farmers Coffee Organizations
 Vendors Processors Other (please specify) _____
2. **Have you attended a CBB Integrated Pest Management workshop? Check all that apply.**
 In the past 6 months In the past 1 - 2 years Never
 In the past 7 to 12 months In the past 3 or more years
 Other (please specify) _____
3. **Have you received the 2016 CBB Integrated Pest Management document from the University of Hawaii?**
 Yes No
4. **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 lb.s for 2017-18 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 in the row. I do not have clear rows.
 _____ Feet between rows. Other (specify) _____
6. **Estimate the number of grafted 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 _____ % Catui _____ % 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/or sides cut
 Other (please specify) _____

Section II. Program Impact

Part 2. CBB Damage

1. **At peak of 2017-18 harvest, what were 3 of your Harvested Cherry CBB % Damage numbers?**
 (Check your Mill receipts or Estate harvest records; do not estimate) _____

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 2017-18 harvest season was completed, what percent of your harvested trees were strip picked (all immature, ripe, over-ripe and dried cherries (raisins) were removed and destroyed)?

90-100% 50-89% 1-49% 0%

Comment _____

2. After the 2017-18 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
 Pre-season green pinhead berries begin of harvest I don't strip pick my trees
 Other (please specify) _____

3. What was the frequency of your harvest in 2017-18 harvest season?

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

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 2017-18 season? Select all that apply.

30 tree sampling method Observation Trapping
 None Other (please specify) _____

2. If you used a sampling method to monitor CBB, when did you start?

1 month after the first flowering 3 months after the first flowering
 2 months after the first flowering 4 months after the first flowering
 I did not sample Other (please specify) _____

3. If you used a sampling method to monitor CBB, how often?

Every 3 weeks. Every 5 weeks. Every 8 weeks. I did not sample
 Every 4 weeks. Every 6 weeks. Every 10 weeks.
 Other (please specify) _____

4. If you used a sampling method, how useful was it as a decision tool for spraying (to spray or not)?

Very effective Somewhat effective Not effective at all
 Effective Not very effective
 Other (please specify) _____

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

Spraying commercial *Beauveria bassiana* and other insecticides.

1. Did you spray commercial insecticides that contain *Beauveria bassiana* ?

I use BotaniGard® ES I use Mycotrol® WPO
 I use BotaniGard® 22WP I use Mycotrol® ESO
 I use BotaniGard® MAXX Other

2. When did you start spraying in the 2018-19 season?

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

3. How many times do you think you will spray *Beauveria bassiana* in the 2018-19 season?
 1 to 2 3 to 4 5 to 6 7 to 8 9 to 10
 Other (please specify) _____

4. How many weeks between *Beauveria bassiana* sprays?
 2 weeks 3 weeks 4 weeks 5 weeks 6 weeks
 I schedule the spray based on a sampling results.
 Comment _____

5. How much BotaniGard® or Mycotrol® product are you applying per acre (per application)?
 less than 32 oz. per acre 32 oz. per acre more than 32 oz. per acre
 less than 1 lb. per acre 1 lb. per acre more than 1 lb. per acre
 Comment _____

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

6. how would you adapt?
 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) _____

7. How effective is spraying BotaniGard® or Mycotrol® for you?
 Very effective Somewhat effective Not effective at all
 Effective Not very effective
 Other (please specify) _____

8. If you tried other products, how effective were they in controlling CBB?

	N/A - Did not try	Very effective	Effective	Somewhat effective	Not very effective	Not effective at all
Admire Pro						
Pyronyl or Evergreen						
BAM						
Garlic Barrier						
Kaolin clay						
Movento						
Pyganic						
Surround WP						
Other (please specify)						

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/oOperator 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 (or business) income is coffee? _____

3. How much Revenue, Expenses, and Net Profit for coffee did your farm have in 2017? (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 land
- diversifying crops
- Keeping my CBB low

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
- Cercospera
- 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?

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

Thank you for participating and sharing your experience with CBB!