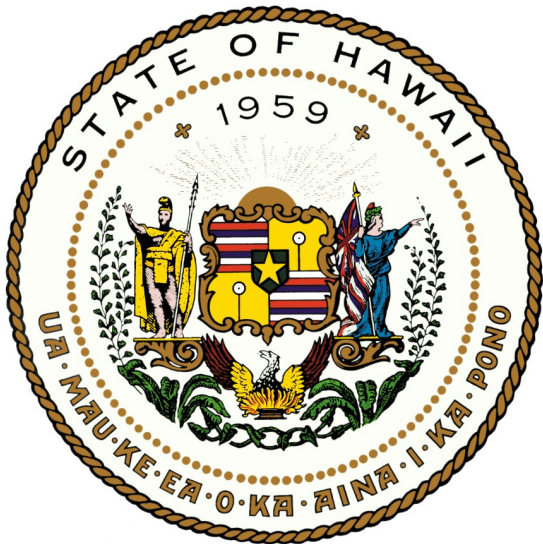


The Farmers' Experience: Managing CBB in 2018-19

Melanie Bondera

CBB Pesticide Subsidy Program

Hawai'i Department of Agriculture



Department
of Agriculture
STATE OF HAWAII

CBB Pesticide Subsidy Program

- ▶ 50% back on Original Receipts for Botaniguard or Mycotrol annually
- ▶ Currently reimbursing July 1, 2018 - Jun 30, 2019
- ▶ Fill out application online hdoa.hawaii.gov/pi/main/cbbsubsidy/ or email me hdoa.cbb@hawaii.gov for a pdf or call me at 323-7578 for a snailmailed paper application
- ▶ Need GET# & federal tax#, Drivers License, TMK/Lease/Management Contract



MAHALO!!!

Farmers for taking the half hour to fill out this survey. This data assists our extension agents and researchers to refine their work on your behalf.



Department
of Agriculture
STATE OF HAWAII

HDOA CBB Subsidy Program Survey Data

- ▶ Collected July 1, 2019 - May 15, 2020
- ▶ 86 Farmer Responses (109 Applicants)

FARMER CHARACTERISTICS

Sales

30 mixed

30 cherry

2 parchment

2 green

7 roasted

71 respondents

% CBB Damage

0-5% 26

6-10% 23

11%+ 17

66 respondents

Acreage

55 1-5 acres

13 6-10 acres

7 11-20 acres

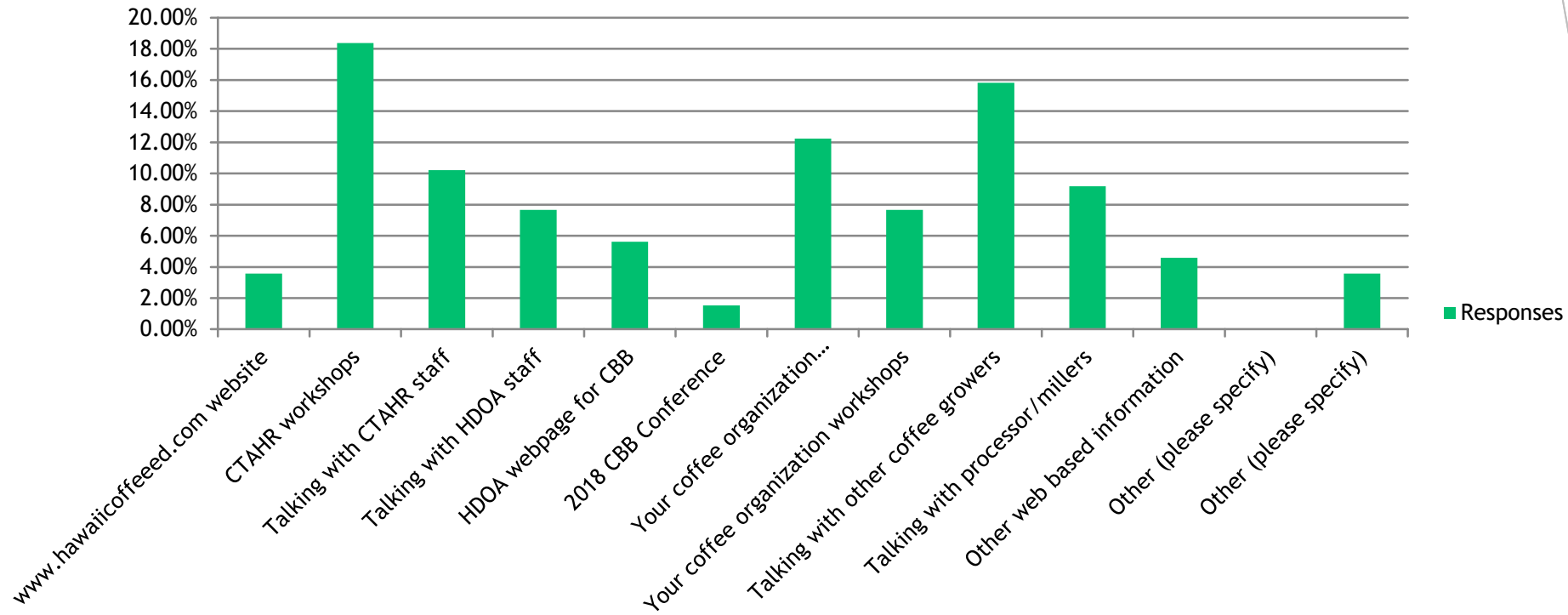
5 21-100 acres

1 over 100

81 respondents

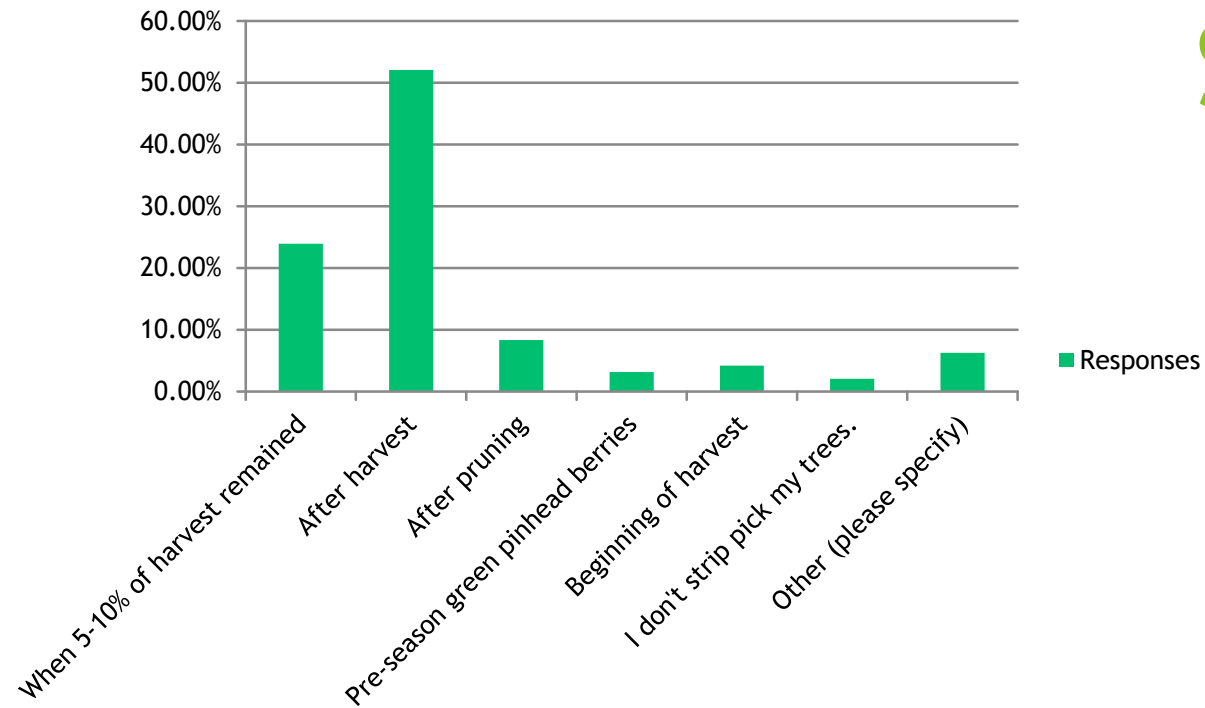


Where do you get information about controlling CBB? Select as many as you use.



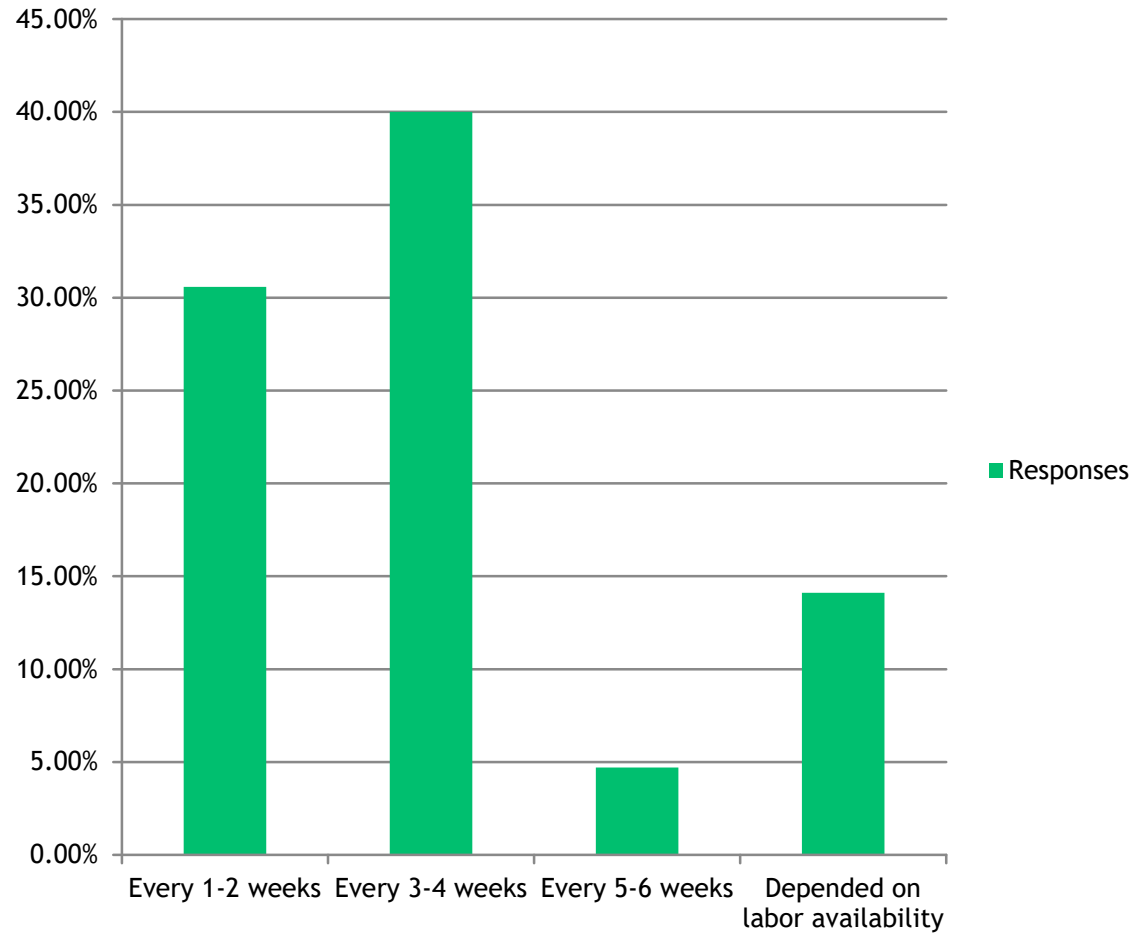
CBB Information

After the 2018-19 harvest season was completed, when did you strip pick your trees; that is all immature, ripe, over-ripe and dried cherries (raisins) were removed from your trees and destroyed, even if you did not prune? (check all that apply)



SANITATION: Timing of Strip Pick

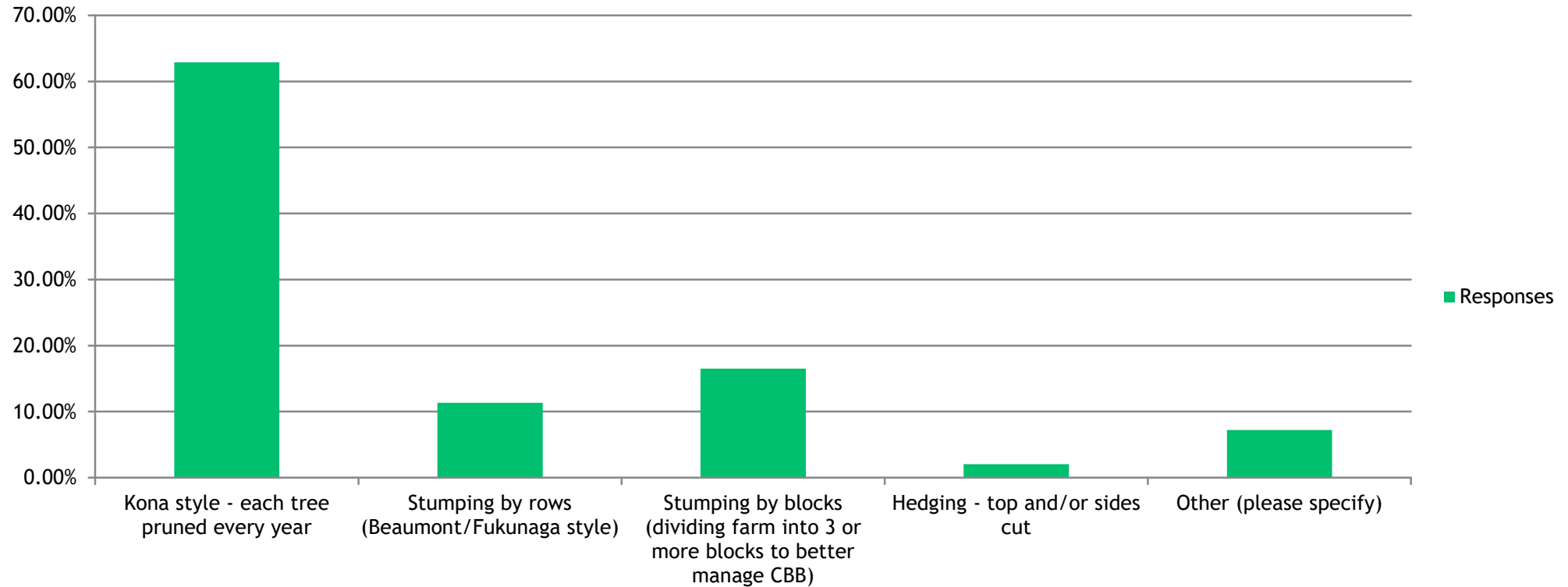
What was the frequency of your harvest in 2018-19 harvest season?



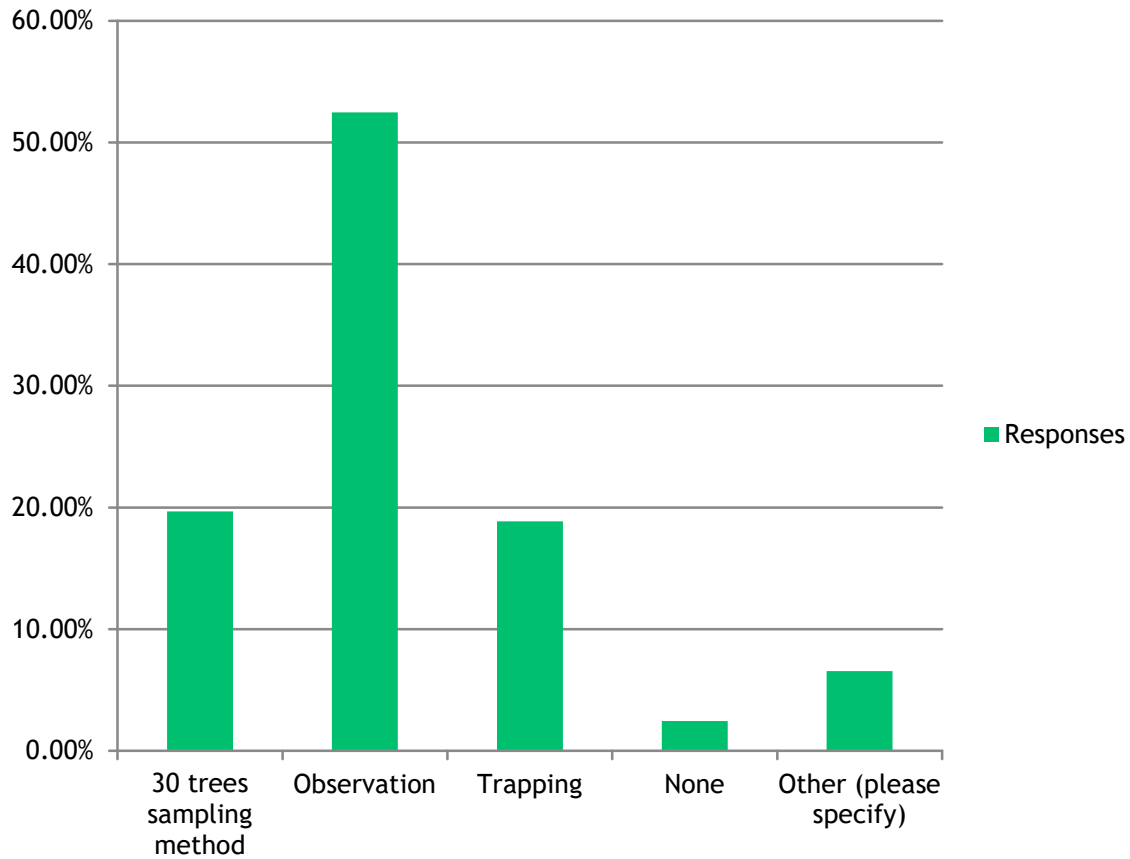
SANITATION: Frequency of Harvest

SANITATION: Pruning Style

What pruning method(s) do you use?

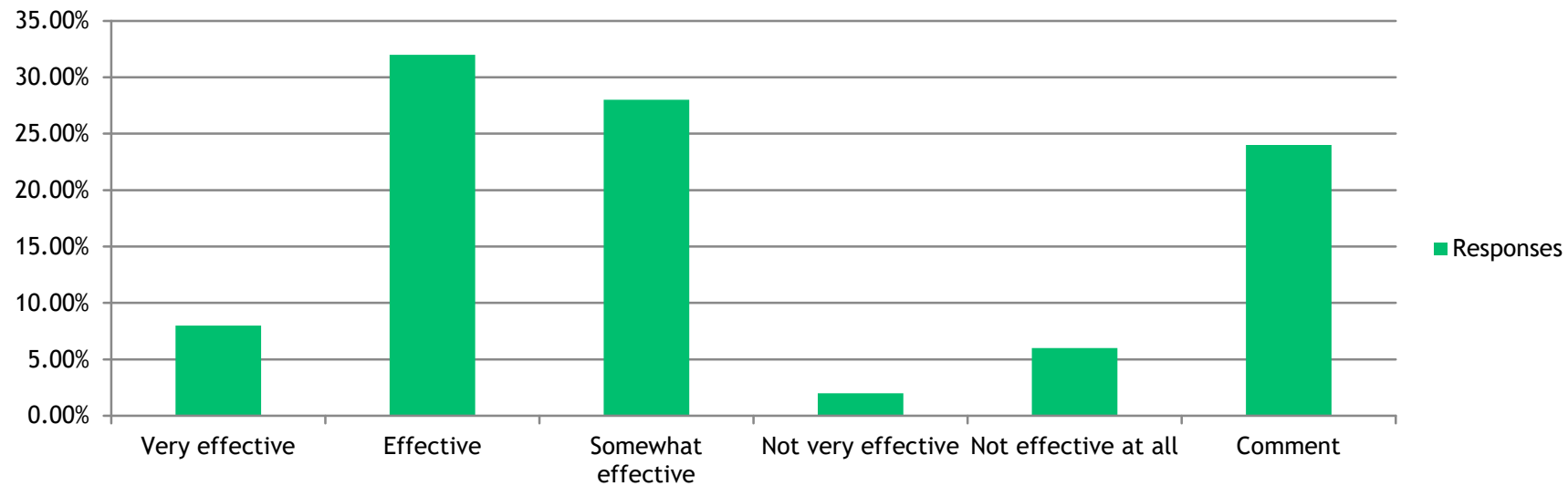


What method(s) did you use to monitor CBB on your farm in the 2018-19 season?
Select all that apply.



MONITORING:
Preferred
Method

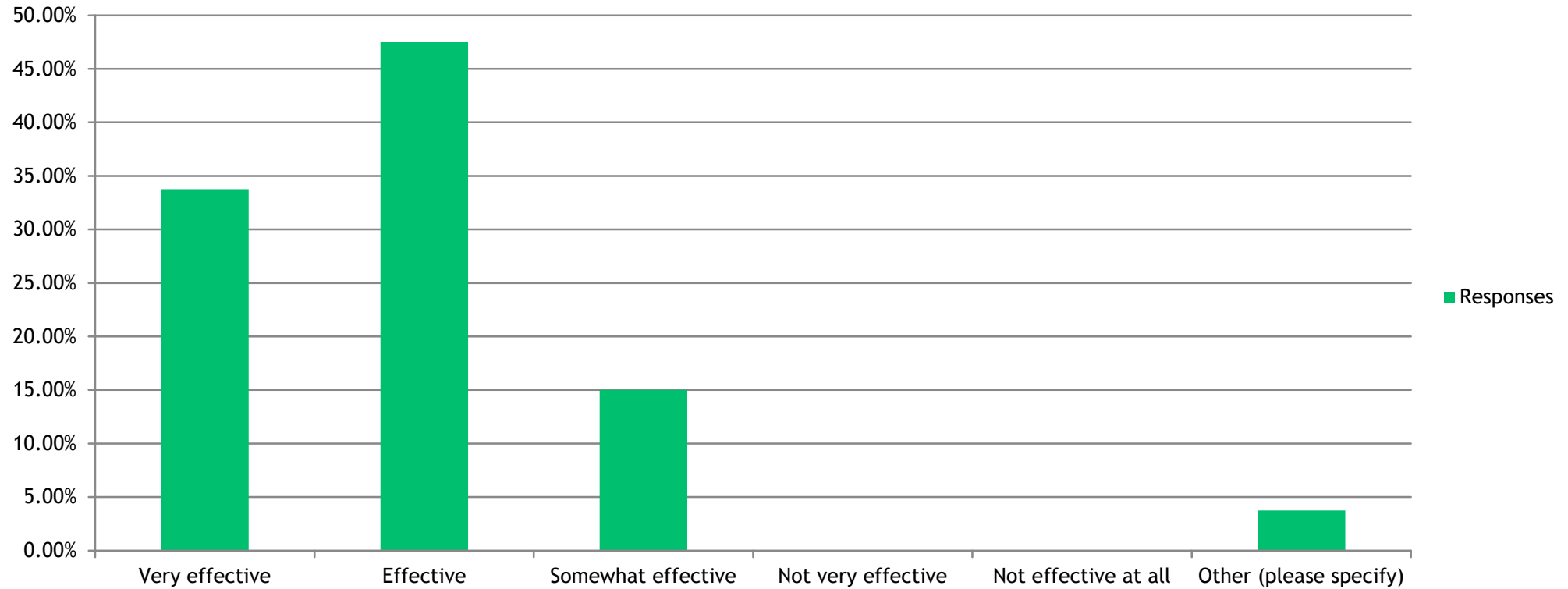
If you used a sampling method to monitor CBB, how useful was it as a decision tool for spraying (to spray or not)?



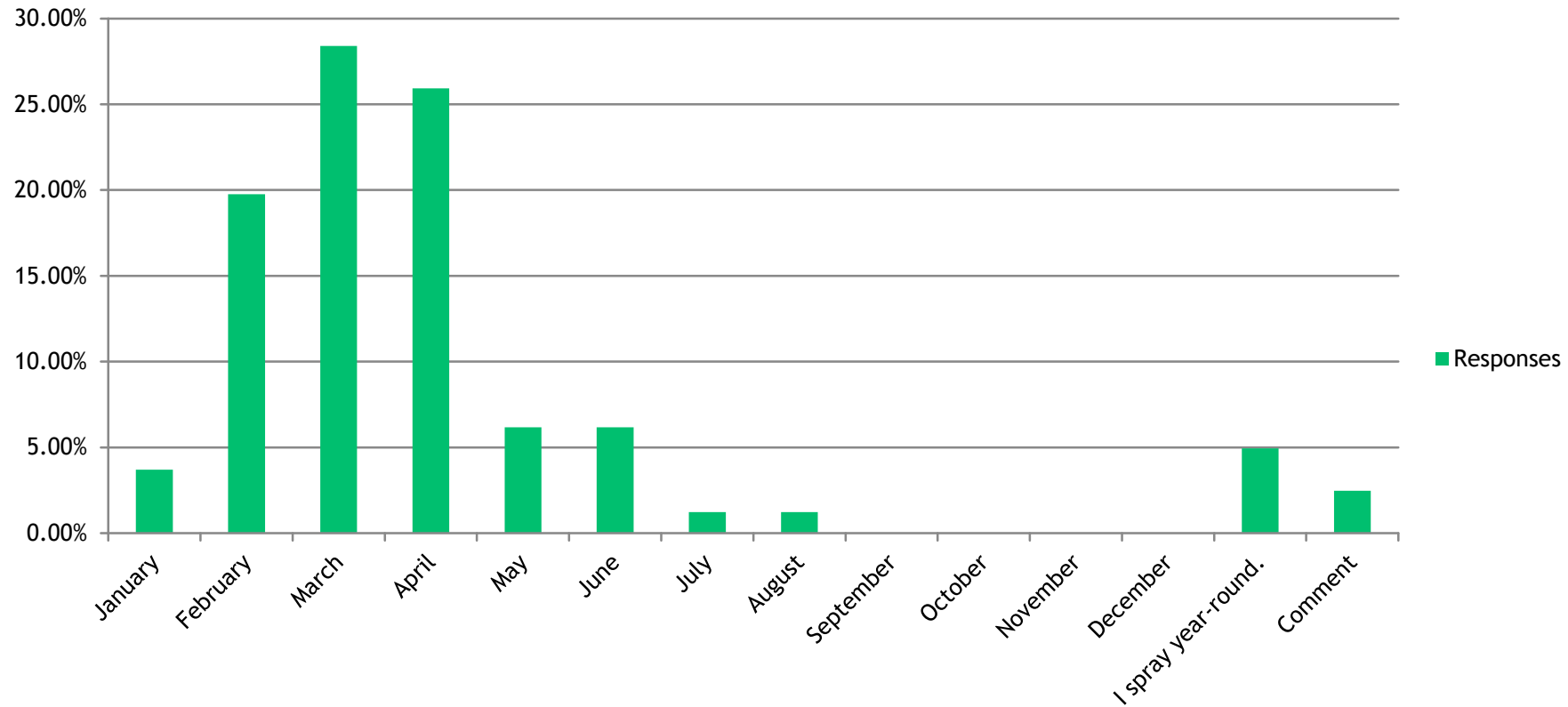
MONITORING: Effective Spray Decision

SPRAYING: Effectiveness

How effective is spraying BotaniGard® or Mycotrol® for you?

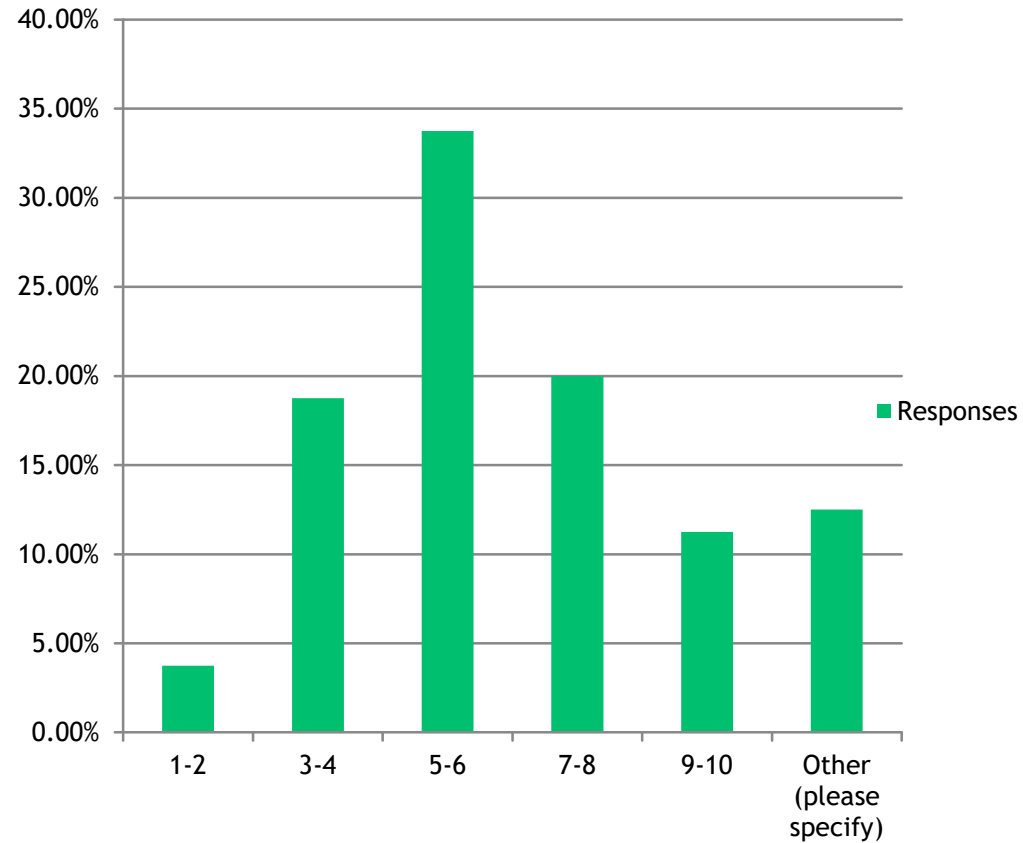


When did you start spraying in the 2018-19 season?



SPRAYING: Start Month

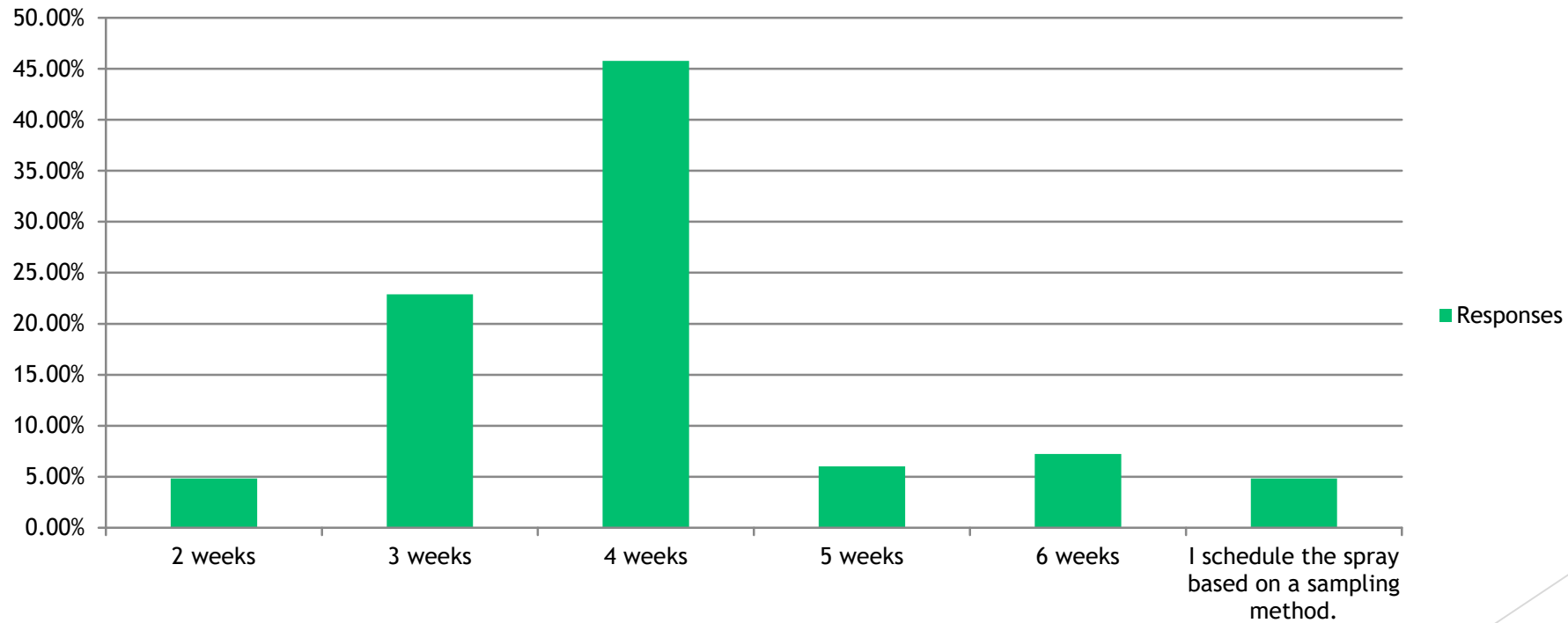
How many times do you think you will spray *Beauveria bassiana* in the 2018-19 season?



**SPRAYING: #
of
Applications**

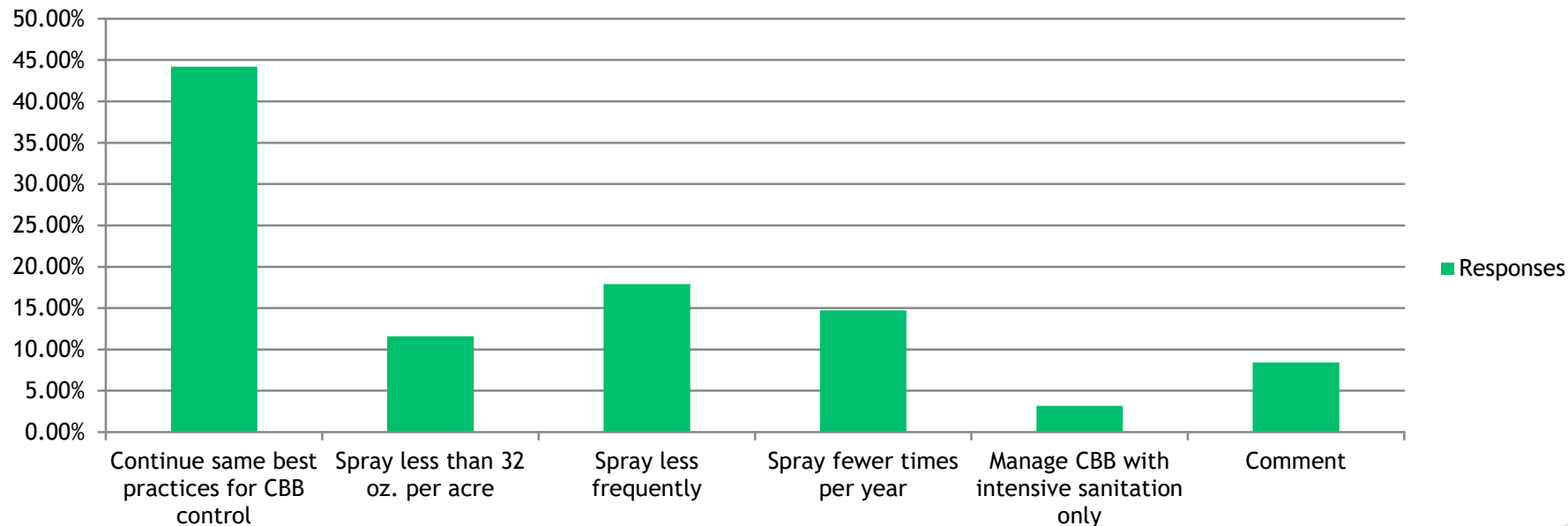
SPRAYING: Frequency

How many weeks between *Beauveria bassiana* sprays?



SPRAYING: After Subsidy Adaptations

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



SPRAYING: Other Products

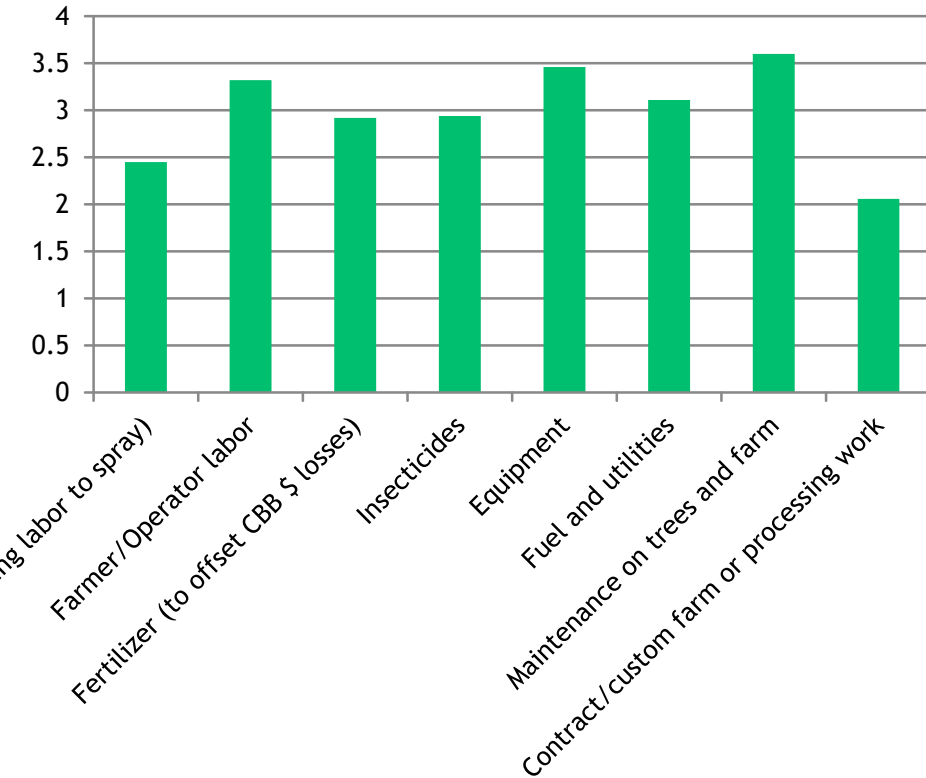
Of 55 Respondents, few tried other spray products...

- ▶ Admire Pro: 7 found this Somewhat Effective (mites)
- ▶ Pyronyl or Evergreen: 20 found this Effective
- ▶ Kaolin Clay: 6 Somewhat Effective
- ▶ Surround WP: 14 found this Effective
- ▶ Garlic Barrier: 14 found this Not Very Effective

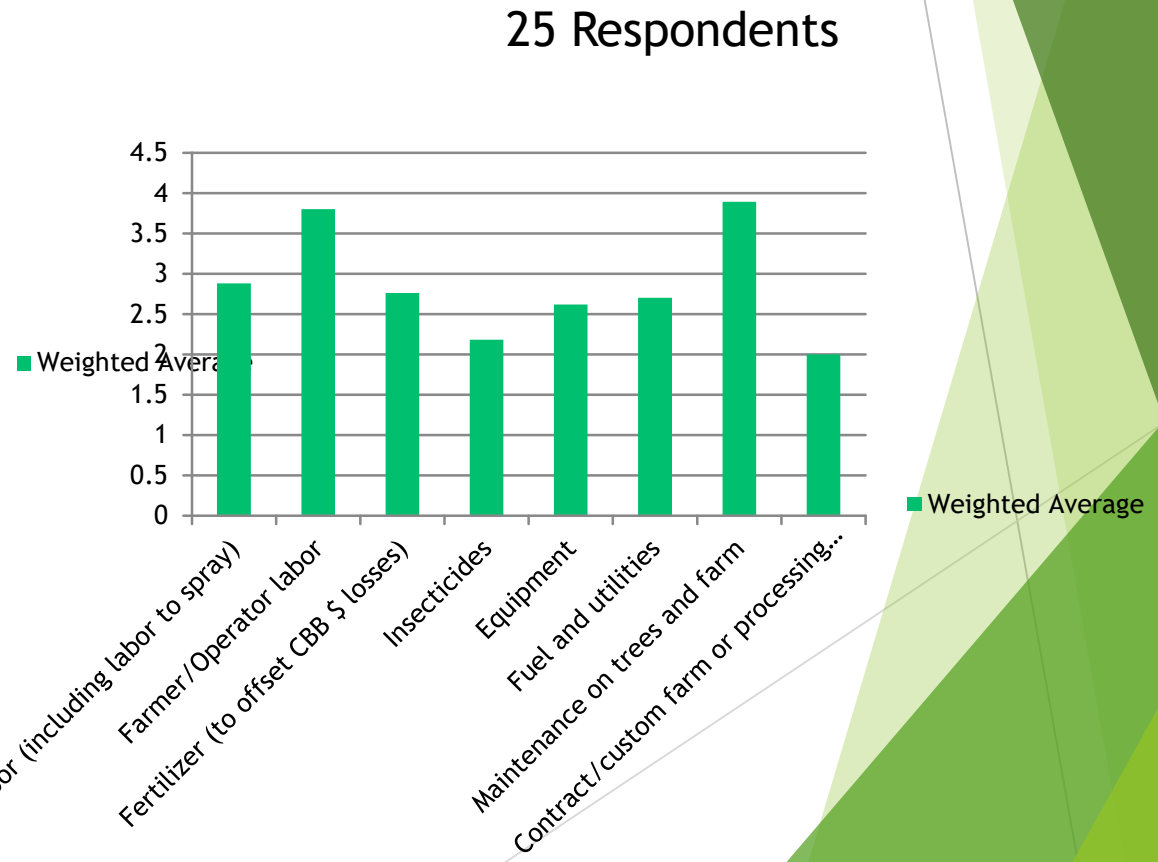


COSTS: Changes with CBB

How is CBB impacting your other farm costs compared to before CBB infested your farm? Please rate the following six cost categories, from 1= least cost increase due to CBB to 6 = most cost increase due to CBB.



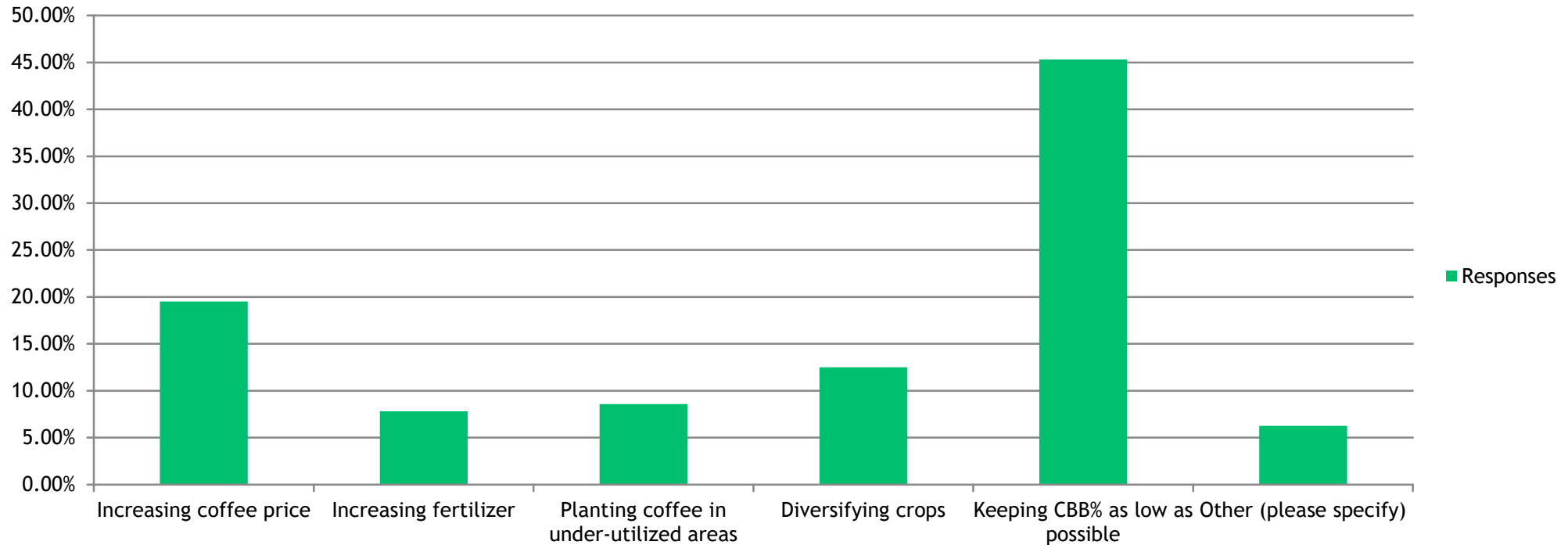
45 Respondents



25 Respondents

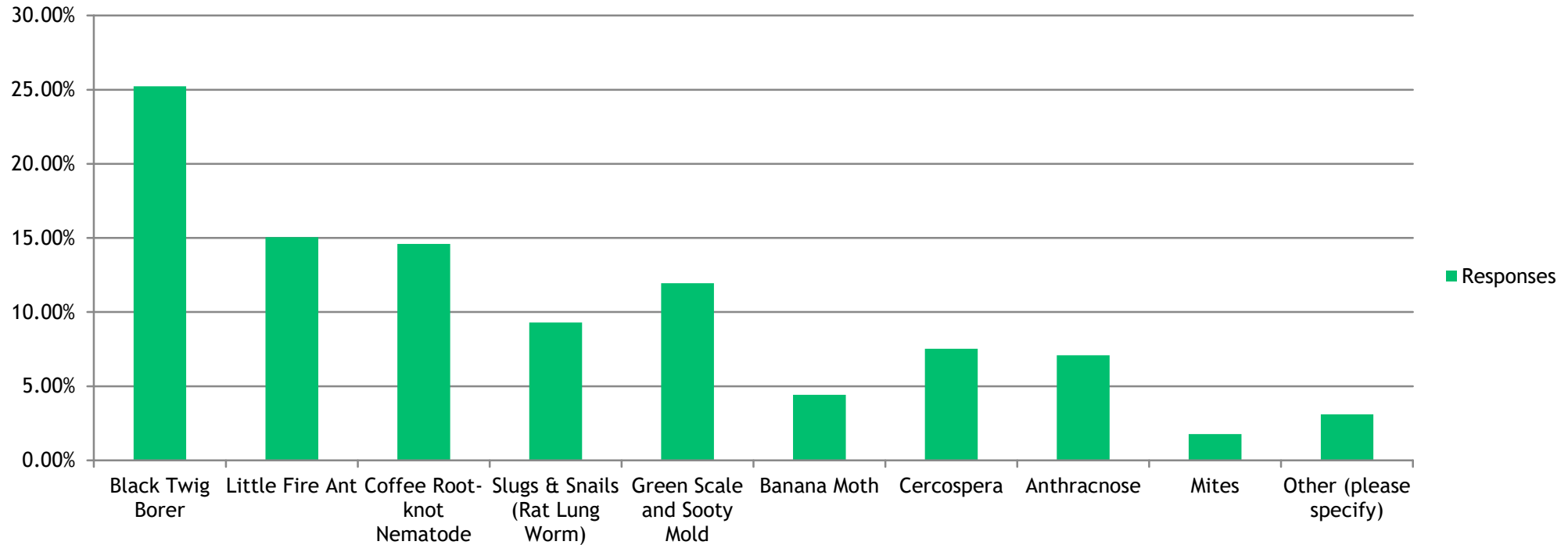
COSTS: After Subsidy Planning

In anticipation of the end of the CBB Subsidy after 2021, I am increasing coffee revenue to offset *Beauveria bassiana* costs by: (check all that apply)



OTHER PESTS: Farmers Concern

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



FARMER ADVICE:

Given that it rains almost every afternoon, often after Botanigard application, it is difficult to be sure Botanigard is working.

Consistent monthly applications of Mycotrol seem to work best.

Timing is everything, especially when you start spraying.

If the neighbors do nothing, it is hard, and if there is a vacant lot by your property, it makes it super tough in the close areas.

Sometimes when CBB in A-B position and spray Botanigard, does not seem to be effective

Pick any 'raisins' when you see them & freeze to kill CBB.

The Mycotrol WPO and all CBB control methods learned in workshops have been great

No matter what the date on the Botanigard container says, the product will not remain viable for more than a couple of months once it is opened. Product that was successfully used in November of one season will be of no use the following March.

Good practice on sanitation and spray with Botanigard at least monthly

Beauveria bassiana works. Farmers need help with cost.

It works if applied strategically.

You must remove all black beans from last year's crop.

I have noticed that the CBB will expose itself after a heavy rain to breathe.



Department
of Agriculture
STATE OF HAWAII

RESEARCH REQUESTED

I have asked many times for a study on the effectiveness of expensive spreaders.

How farmers can make their own versions of Mycotrol.

Reading.

Research on the Black Twig Borer control. Currently CTAHR advises to trim the branches off. This is marginally effective

TWIG BORERS ARE A BIGGER PROBLEM TO OUR COFFEE NOW. WILD PIGS ARE INVADING FARMS. LFA ANTS ARE SPREADING CLOSER TO OUR FARM. NEED MAINTENANCE FOR FARM OWNERS THAT NEGLECT OR CAN NO LONGER MANAGE THEIR FARMS.

Anthraxnose. We have nothing to combat this disease. Research needed

Continue coffee borer subsidy.

I wish that next door farmers would spray their coffee, but it is so expensive.

Twig Borer Beetle- research and find how to eliminate it.

Survival thru the dry season.

Thank you PBARC + USDA for your work.

Find way to eliminate CBB.



Department
of Agriculture

STATE OF HAWAII

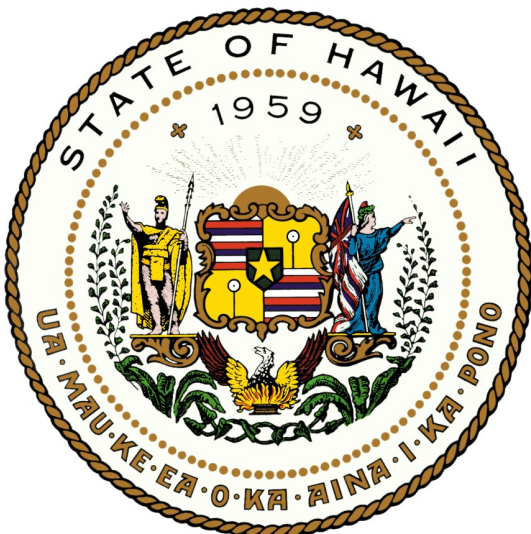
CBB Pesticide Subsidy Program

hdoa.hawaii.gov/pi/main/cbbsubsidy/

Melanie Bondera

hdoa.cbb@hawaii.gov

808-323-7578



Department
of Agriculture
STATE OF HAWAII