A consortium of
Hawaii Coffee Association
Hawaii Papaya Industry Association
Hawaii Floriculture & Nursery Association
USDA TASC Grant
Technical Assistance to Specialty Crops

2013 – Pilot program in Kau and South Kona (8-4 TMK)
  - $330,000 from USDA
  - Successful reduction in CBB when compared to wet mill data

2014 – Opened to all regions: June start due to late funding
  - $400,000 from USDA, plus $200,000 HDOA grant in 2014-15
  - Late-season start meant high initial numbers of CBB inside bean
USDA TASC Grant
Technical Assistance to Specialty Crops

2015 – Full program year
  o $400,000 from USDA
  o Large data set received from growers

2016 – Funding expected soon
  o $500,000 requested
  o Luis Aristizabal will be added to staff

2017 – Final possible year for TASC Subsidy
  o Must reapply next January, not guaranteed
USDA TASC Grant
Technical Assistance to Specialty Crops

In order to receive the discounted Beauveria each farmer must:

- Undergo training in basic IPM (1-2 hours)
- Strip-pick their trees before first spray
- Commit to the monitoring program

SHAC

- Collates data, compares to Wet Mill reports
- Collaborates with CTAHR and PBARC
2015 SHAC CBB Grant
Sampling and Monitoring Report

Farmer Name: ___________________ Date of sampling: 4/21/15

Date of last Beauveria spray: 4/10/15 Other products sprayed? X

1st application of the season

<table>
<thead>
<tr>
<th>Tree #</th>
<th># Green Cherries</th>
<th># Cherries Infested</th>
<th># Beauveria Noted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>74</td>
<td>23</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>51</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>98</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>77</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>81</td>
<td>34</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>41</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>67</td>
<td>53</td>
<td>18</td>
</tr>
<tr>
<td>8</td>
<td>17</td>
<td>14</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>36</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>21</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>11</td>
<td>56</td>
<td>26</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>63</td>
<td>25</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>654</td>
<td>206</td>
<td>43</td>
</tr>
</tbody>
</table>

% infestation = (total # cherries infested / total # green cherries) x 100 = 42%

AB / CD Green Bean Inspection

# of live CBB in position AB = 23 (64%)
# of live CBB in position CD = 1 (3%)
# of dead CBB in AB or CD = 6
# of berries with no live or dead CBB = 1

NOTE: The AB/CD numbers should total to the number of berries cut (36).

Observations: We have an early round of cherry that is almost full size and is badly infested. The later cherry is much cleaner.

Download this document at deadcbb.com
Questions 365-9041 or info@deadcbb.com
# Participants

<table>
<thead>
<tr>
<th>Region</th>
<th>2014</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TMK Contracts</td>
<td>Acreage</td>
</tr>
<tr>
<td>Kona</td>
<td>315</td>
<td>2563</td>
</tr>
<tr>
<td>Kau</td>
<td>47</td>
<td>560</td>
</tr>
<tr>
<td>Hilo</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>Hamakua</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Oahu</td>
<td>1</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>366</strong></td>
<td><strong>3282</strong></td>
</tr>
</tbody>
</table>
Wet Mill Cherry Data

2011 Baseline average:
• 22.8% infestation rate region-wide
• 43.9% when removing North Kona districts not yet impacted by CBB

2014 Data:
• 15.1% from growers participating in grant
• 87 growers under 10% (earned $1500 more per acre over average)

• Of participants, 30% picked up Botanigard only once.
• 35% reported their fields stripped “partially” or “not at all”
To Join

- info@deadcbb.com
- text or call 365-9041