Table 1. All fungicides labelled for control of gray mold of strawberry in California. Shaded active ingredients and their corresponding FRAC codes were tested in this study.

<table>
<thead>
<tr>
<th>Product registered for Botrytis in CA</th>
<th>Active ingredient(s)</th>
<th>FRAC code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topsin</td>
<td>thiophanate-methyl</td>
<td>1</td>
</tr>
<tr>
<td>Rovral</td>
<td>iprodione</td>
<td>2</td>
</tr>
<tr>
<td>Fontelis</td>
<td>penthiopyrad</td>
<td>7</td>
</tr>
<tr>
<td>Kenja 400</td>
<td>isofetamid</td>
<td>7</td>
</tr>
<tr>
<td>Luna Sensation</td>
<td>flupyram</td>
<td>7 11</td>
</tr>
<tr>
<td>Luna Tranquility</td>
<td>flupyram pyrimethanil</td>
<td>7 9</td>
</tr>
<tr>
<td>Pristine</td>
<td>boscalid pyraclostrobin</td>
<td>7 11</td>
</tr>
<tr>
<td>Merivon</td>
<td>fluxapyroxad pyraclostrobin</td>
<td>7 11</td>
</tr>
<tr>
<td>Scala</td>
<td>pyrimethanil</td>
<td>9</td>
</tr>
<tr>
<td>Switch</td>
<td>cyprodinil fludioxonil</td>
<td>9 12</td>
</tr>
<tr>
<td>Elevate</td>
<td>fenhexamid</td>
<td>17</td>
</tr>
<tr>
<td>PH-D</td>
<td>polyoxin-D</td>
<td>19</td>
</tr>
</tbody>
</table>

Figure 1. *Botrytis cinerea* isolates collected during the early-season and late-season of 2016. Isolates were tested for resistance to active ingredients contained in fungicides labeled for gray mold of strawberry.
### Botrytis Fungicide Resistance Trial

**Field fungicide treatments**
1) Non-treated control
2) Elevate (fenhexamid) (E)
3) Switch (cyprodinil + fludioxonil) (S)
4) Pristine (boscalid + pyraclostrobin) (P)
5) Captan (C)
6) P, S, E rotation
7) P+C, S+C, E+C rotation

**Sampling**
- 4 isolates/rep
- 7 treatments
- 4 reps
- 5 x 5 sampling times
- 560 total isolates

**Resistance testing**
- 4 media types
- 1) non-amended control
- 2) Endura (boscalid)
- 3) Scholar (fludioxonil)
- 4) Elevate (fenhexamid)

**Fungicides applied weekly**
- Week 1: 4
- Week 2: 6
- Week 3: 3
- Week 4: 1
- Week 5: 2
- Week 6: 1
- Week 7: 2
- Week 8: 1
- Week 9: 2
- Week 10: 1
- Week 11: 2
- Week 12: 3

**No fungicides applied**
- Week 1: 1
- Week 2: 3
- Week 3: 5
- Week 4: 4
- Week 5: 6

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- Sage Finch – Pest Control Advisor
- Randy Widerburg – Pest Control Advisor
- Dan Chellemi & Driscoll’s

Photo by: B. Liu

[Image of strawberry field with fungicide treatments applied]

[Image of timeline showing fungicides applied weekly and no fungicides applied]

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