Cooperative Research Project, Doug Gubler, U.C. Davis Dept. of Plant Pathology

Trial name............ Santa Maria Strawberry Powdery Mildew Trial, 2003
Location ............... DB Specialty Farms, Prell Rd., Santa Maria
Investigators......... Doug Gubler, 530.752.0304; Ken Dell, 752.4982, Frank Laemmlen 805.934.6240
Cooperators.......... Darren Gee, Hank Guerrero
Crop .................. Strawberry cv ‘Ventana’
Disease ................ Powdery mildew (Sphaerotheca macularis f. sp. fragariae)

Trial layout and method

Objective ................ Efficacy of fungicides for control of fruit and/or leaf powdery mildew
Experimental design .... Treatments consist of fungicide applications to single bed plots, in a randomized complete block design, with 4 replications in trial 1 and 5 replications in trial 2.
Application method ..... CO₂ Sprayer (R&D sprayer) at 50 psi, 16” T-wand w/4 nozzle TX6 sprayjet tips
Plant spacing .......... 16” / 4 plants
Treatment unit ........ 20 plants trial 1, 16 pts trial 2
Treatment unit area..... T1: 64” x 80” T2: 64’”x 64”
Area/Treatment, sq ft .... 142.2 ft²
Area/Treatment, acre ... 0.003265
Vol. Water/acre, gal.... 150
Vol. water/trt, liter .......... 1.85 (150 gpa)
Apps. Start ............. 21 Feb
Apps. End ................ 6 apps; 31 April
Treatment interval ...... 10 - 14 days
Evaluation stage ........ 14 May
Evaluation method ...... mildew severity on leaves and fruit, horticultural symptoms on plots.

trial 1

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Note: ‘Tol’ denotes Federal tolerance for the active ingredient on the specified crop. Treatments marked with a ‘N’ will be crop destruct.

trial 2

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### Calendar of events

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<th>Date</th>
<th>Activity</th>
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| Dec'02- Feb'03 | Grower applied fungicides:  
12/13 Topsin M 70W 1.0 lb + Rally 40W 4.0 oz + Elevate 50WDG 1.5 lb  
1/11 Rovral 4F 1.0 qt + Quadris 12.0 oz/ac  
1/18 Rovral 4F 1.0 qt/ac  
1/29 Microthiol 4.0 lb/ac  
2/13 Topsin M 70W 1.0 lb/ac + Captan 50WP 3.0 lb/ac  
2/21 Elevate 50WDG 1.5 lb/ac + Microthiol 3.0 lb/ac (not to trial plots)                                                                                     |
| 20 Feb | Set up plot at Donovan Ranch; mildew scouting: 10/20 leaf, 1/20 fruit infected (2 others with possible old infection sites); Rosemary ranch scouting: 1/30 leaf, 0/25 fruit infected. Set up Adcon station ‘Blosser’                                                                                                                                 |
| 21 Feb | Treat Donovan plots 7:45 – 9am. Calm. 70F, sunny. Sample from untreated plots 5 lvs/plot selected at random (rated later = 90% incidence). Plots w/o tol. marked yellow ‘do not pick’ tape, crop to be dropped.                                                                             |
| 7 Mar  | KD, FL. Trial 1: App. #2; trial 2: establish and app. #1. Application 8 – 9:30am; clear, 70F, calm. Count freshly opened flowers and collect and rate 10 fruit/plot from trial 1 trial 1 w/Eric; Eric to continue weekly. Collect 10 leaflets/plot from trial 1 trial 1 for later rate. Flower count = avg 27 flowers/20 plants. Treatment 9 and 10 + microthiol @3.25lb/A |
| 21 Mar | KD, FL; trial 1 App #3; trial 2 app #2. 7:30-9am, calm, 70F, clear. Count flowers, sample 10 fruit & 10 leaflets/plot 1,15,30,46. Tag flowers plots 77-88; agar plates placed plots 1, 15, 30, 46, 77, 81, 84, 87. Adcon station new leaf wetness sensors (slope NNW) installed (cable bad on old lower) lower to I/O B, upper to I/O A. |
| 2 Apr  | KD, FL; app #4 & 3; index 80 so app to trial 2. Count flowers, sample 10 fruit, 10 leaflets plots 1,15,30,46. Tag flowers plots 77-88; BSTM plates placed plots 1, 15, 30, 46, 77, 81, 84, 87.                                                                 |
| 17 Apr | KD, FL app #5; 7-9am, 65F, calm. Clear. Flower count, leaflet and fruit sample; BSTM plates.                                                                                                                                                                                                                                             |
| 31 Apr | KD; app #6; 7-8:30am, 60F, cloudy, calm. Dry. Flower count, leaflet and fruit sample dis prog.                                                                                                                                                                                                                                             |
| 15 May | KD, FL sample fruit and leaves for later rate.                                                                                                                                                                                                                                                                                    |
| 21 May | KD, EE rate fruit.                                                                                                                                                                                                                                                                                                                   |
**Results**

**Disease progress.** Disease levels on untreated foliage and fruit were monitored biweekly by observing the abaxial surface of 40 leaflets and estimating the percent of leaflet surface affected by mildew (severity), and observation of 40 fruit with rating as above. Disease levels on foliage were high initially and trended downward while disease levels on fruit were low initially and trended upward. At trials’ end, 80% of fruit were infected with powdery mildew, and at the peak, 17% of fruit were infected severely (category 3). Environmental conditions, as measured by an experimental index (modified Gubler-Thomas grape powdery mildew risk index), were favorable for powdery mildew during January, unfavorable during February and March, and briefly favorable during early April (Figure 1).

Figure 1. Powdery Mildew on untreated leaves and fruit, and experimental risk index. Fungicide application arrows in grey indicate a skip for treatment #2 (application interval lengthened to 28 days when the risk index is below 30).

**Fungicide applications.** Fungicides were applied 6 times at 14 day intervals to all treatments in trial 1 except treatment #2, Quintec at 10-28 day intervals according to the risk index, which was applied 4 times. If the index was below 30 at the time of normal application, treatment #2 was withheld until either a 28 day interval or the index had risen. Treatments 9 and 10 included micronized sulfur @ 3.25lb/A at application #2 (7 March). In trial 2, fungicides were applied 5 times at 14 day intervals.
Fruit rating. Twenty red fruit from each plot were sampled at random on 15 May, 2003. Fruit samples were wrapped in a paper towel and placed inside a plastic bag and stored in a refrigerator until rating approx. 1 week later. Fruit were inspected by eye under close illumination, and suspected mildew was confirmed with a hand lens or microscope. Mildew infection severity on fruit was categorized as follows: 1 to 4 achenes infected (or an equivalent fruit surface area) = category 1; 5 to 9 achenes infected = category 2; 10 or more achenes infected = category 3. Severity and incidence (the % of fruit with any mildew) ratings were averaged for each plot and analyzed by analysis of variance. Treatment effects that were found to be significant by ANOVA at P=0.05 were separated by Fisher’s LSD test at P=0.05.

Trial 1. Treatments were found to be a significant effect on both mildew severity and incidence, and all treatments significantly reduced disease compared to untreated plots (Table 1). Quintec treatments reduced disease to low levels at both 4.0 and 6.0 fluid ounces per acre. Quintec applied according to the risk index (trt #2) was applied four times compared to six calendar applications, and resulted in an approximate doubling of disease levels, although not a statistically significant increase. Switch 62.5WG was the most effective material among registered products tested.

Trial 2. Treatments were found to be a significant effect on both mildew severity and incidence. BAS516 38WG (Pristine) significantly reduced both mildew severity and incidence at both rates tested, compared to the untreated plots. The higher rate of BAS516 resulted in less disease than the lower rate, but the differences were not statistically significant. Treatment with Rally 40W resulted in a non-significant reduction compared to the untreated plots.

Table 1. Trial 1 treatment fruit rating.

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<th>Severity, %</th>
<th>Incidence, %</th>
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<tr>
<td>5</td>
<td>Quintec 250SC, 4 foz</td>
<td>0.18 f</td>
<td>11.3 f</td>
</tr>
<tr>
<td>6</td>
<td>Quintec 250 SC, 6 foz</td>
<td>0.23 f</td>
<td>12.7 f</td>
</tr>
<tr>
<td>2</td>
<td>Quintec 250 SC, 4 foz, 10-28d RI</td>
<td>0.37 ef</td>
<td>24.1 ef</td>
</tr>
<tr>
<td>13</td>
<td>Switch 62.5WG, 14 oz</td>
<td>0.50 def</td>
<td>41.7 cde</td>
</tr>
<tr>
<td>12</td>
<td>Switch 62.5WG, 10 oz</td>
<td>0.59 def</td>
<td>33.9 de</td>
</tr>
<tr>
<td>11</td>
<td>Scala 400L, 20.5 foz + Flint 50WG, 1.5oz</td>
<td>0.66 cde</td>
<td>40.7 cde</td>
</tr>
<tr>
<td>8</td>
<td>Rally 40W, 4.0 oz alt/w Quintec 250SC, 4 foz</td>
<td>0.67 cde</td>
<td>31.7 de</td>
</tr>
<tr>
<td>14</td>
<td>Switch 62.5WG, 14 oz alt/w Quadrisk2.08F, 15 foz</td>
<td>0.78 cde</td>
<td>43.8 cd</td>
</tr>
<tr>
<td>7</td>
<td>Rally 40W, 4.0 oz</td>
<td>0.83 cd</td>
<td>46.5 bcd</td>
</tr>
<tr>
<td>4</td>
<td>Procure 50WS, 8 oz</td>
<td>0.89 cd</td>
<td>48.6 bcd</td>
</tr>
<tr>
<td>3</td>
<td>Procure 50WS, 6 oz</td>
<td>1.06 bc</td>
<td>54.2 bc</td>
</tr>
<tr>
<td>9</td>
<td>TM402, 1.5 lb</td>
<td>1.38 b</td>
<td>64.6 ab</td>
</tr>
<tr>
<td>10</td>
<td>TM-5002, 5.25 lb</td>
<td>1.41 b</td>
<td>59.0 bc</td>
</tr>
<tr>
<td>1</td>
<td>Non-treated</td>
<td>2.10 a</td>
<td>79.2 a</td>
</tr>
<tr>
<td>LSD</td>
<td></td>
<td>0.43</td>
<td>18.6</td>
</tr>
</tbody>
</table>

Values in a column followed by the same letter are not significantly different according to Fisher’s LSD test at p=0.05.

Table 2. Trial 2 treatment fruit rating

<table>
<thead>
<tr>
<th>Trt #</th>
<th>Treatment material, rate/A</th>
<th>Severity, %</th>
<th>Incidence, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>BAS516 38WG 23.2 oz</td>
<td>0.37 b</td>
<td>23.3 b</td>
</tr>
<tr>
<td>15</td>
<td>BAS516 38WG 18.9 oz</td>
<td>0.40 b</td>
<td>25.0 b</td>
</tr>
<tr>
<td>17</td>
<td>Rally 40W 4 oz</td>
<td>1.03 a</td>
<td>58.3 a</td>
</tr>
<tr>
<td>18</td>
<td>Non-treated</td>
<td>1.26 a</td>
<td>71.6 a</td>
</tr>
<tr>
<td>LSD</td>
<td></td>
<td>0.53</td>
<td>17.8</td>
</tr>
</tbody>
</table>

Values in a column followed by the same letter are not significantly different according to Fisher’s LSD test at p=0.05.