Control of Foliar Diseases in Australian Strawberry Runner Nurseries
Apollo O Gomez (DAF Queensland) & Scott W Mattner (Victorian Strawberry Industry Certification Authority)

## Introduction
- Powdery mildew (*Podosphaera aphanis* [PM]) and leaf blotch (*Gnomoniopsis fructicola* [LB]) are important diseases of strawberry in nursery and fruit farms.
- This project aims to address the risk of chemical resistance developing from repeated use of the same fungicides in strawberry nurseries and fruit farms.
- Examining alternative control with different modes of action from those currently registered for use in fruit farms.

<table>
<thead>
<tr>
<th>Nursery</th>
<th>Fruit farm</th>
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<tbody>
<tr>
<td>Sulphur (M2)</td>
<td>Tolyfluanid (M6) [w]</td>
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<tr>
<td>Myclobutanil (3)</td>
<td>Myclobutanil (3)</td>
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<tr>
<td>Trifloxystrobin (11)</td>
<td>Trifloxystrobin (11)</td>
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<tr>
<td>Quinoxyfen (13) [Per. 2014]</td>
<td>Penthiopyrad (7) [Reg. 2013]</td>
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Methods & Results
• Four field trials in 2013-14
• Twelve treatments
• PM standard (sulphur, myclobutanil & trifloxystrobin)
• Small plot trial
• Applied weekly, knapsack
• Natural infection
• Commercial runners were assessed for incidence of PM and LB

• Cyflufenamid, bupirimate and group 13’s were effective for PM
• Azoxystrobin + difenoconazole, chlorothalonil & prochloraz were effective for LB
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Discussions & Future Work

- Chemicals vary in their effect against PM and LB
- More effective chemicals, soft-chemicals and alternate programs will be assessed in future trials
- Inclusion of new products and developing a coordinated program between nursery and fruit production in Australia with have long-term benefits
- Reduce risk of fungi becoming fungicide resistant
- Extend the usefulness of all effective products
- Reduce disease incidence in nurseries and fruit farms

Acknowledgements

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