BCPC 4th disease review
NIAB HQ
12th of October 2018

Dr Julien Lecourt
NIAB Lead researcher in viticulture
The UK wine industry – some numbers

• 500 vineyards – 130 wineries
• 2500 Ha - to grow by 50% by 2020 (10M bottles)
• Nyetimber the largest estate 170Ha – smallest <0.0001Ha!
• 5M bottles produced in 2015
• 70% sparkling – 25% white – 5% red/rose
• Chardonnay > Pinot N > Bacchus > Seyval B > Pinot Meunier
• Retail sells: £100M (out of 1500 Ha)
• Very high value product – average price approx £25 for sparkling
• Good profit margin but big investments to pay back
Challenges of growing vines in the UK
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- Low yield = low profitability
- Big variations in yield $\rightarrow$ sustainability
- High diseases pressure $\rightarrow$ sustainability
- Consistency in quality $\rightarrow$ good price/value?
- Limited knowledge from/for the UK

- Late frost risk, botrytis, SWD, moths, mildews, pruning, soil management, rootstocks, crop load, weeds...
- Much more complex than other fruits: fruits for wine production
NIAB research activities on viticulture

For a sustainable and profitable UK wine production
“from vines to wine”

- Collaborative work with UK vineyards and researchers
  - East Malling Research Vineyard
  - EM Viticulture consortium
  - Effect of leaf removal on yield and quality
  - IWM Praise – Integrated Weeds Management Systems
  - Identification of virus diseases present in UK vineyards
  - ViTICE – Climate vine

=> Next step: DISEASES
The UK wine industry – Diseases

Powdery mildew
The UK wine industry – Diseases

Downy mildew
The UK wine industry – Diseases

Botrytis cinerea
The UK wine industry – Diseases

Antrachnose
The UK wine industry – Diseases

Crown gall
The UK wine industry – Diseases

Esca
The UK wine industry – Diseases

Black dead arm
The UK wine industry – Diseases

Pinot gris virus
The UK wine industry – Diseases

Rupestris Stem pitting virus
The UK wine industry – Diseases

Grapevine Leaf Roll Virus
The UK wine industry – Challenges
The UK wine industry – challenges

+ people and other items
The UK wine industry – Challenges

Number of chemical products authorised in viticulture (wine)
France vs UK

- Fungicide: 328 (France), 11 (UK)
- Herbicide: 122 (France), 36 (UK)
- Insecticide: 87 (France), 4 (UK)
The UK wine industry – new threats

Network of regional and national bodies to survey the progression of Cicadella and Xylella. Growers and agronomists trained.
## The UK wine industry – new threats

<table>
<thead>
<tr>
<th>Location</th>
<th>Contact Name</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREDON Rhône-Alpes</td>
<td>Manuela DAGBA</td>
<td><a href="mailto:manuela.dagba@fredon-rhone-alpes.fr">manuela.dagba@fredon-rhone-alpes.fr</a></td>
<td>04 37 43 40 77</td>
</tr>
<tr>
<td>FREDON site de l’Ardèche</td>
<td>Damien DONATI</td>
<td><a href="mailto:damien.donati@fredon07.fr">damien.donati@fredon07.fr</a></td>
<td>04 75 64 92 12</td>
</tr>
<tr>
<td>FREDON site de la Drôme</td>
<td>Patrice MONIER</td>
<td><a href="mailto:patrice.monier@fredon26.fr">patrice.monier@fredon26.fr</a></td>
<td>04 75 55 92 97</td>
</tr>
<tr>
<td>FREDON site de l’Isère</td>
<td>Marlène VIAL</td>
<td><a href="mailto:marlene.vial@fredon38.fr">marlene.vial@fredon38.fr</a></td>
<td>04 74 86 40 68</td>
</tr>
<tr>
<td>FREDON site de la Savoie</td>
<td>Marjorie SCHAMM</td>
<td><a href="mailto:marjorie.schamm@fredon73-74.fr">marjorie.schamm@fredon73-74.fr</a></td>
<td>04 57 33 46 89</td>
</tr>
<tr>
<td>FREDON Auvergne</td>
<td>Sylvain GRANJON</td>
<td><a href="mailto:sylvain.granjon@fredon-auvergne.fr">sylvain.granjon@fredon-auvergne.fr</a></td>
<td>04 73 42 16 24</td>
</tr>
</tbody>
</table>

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### Pour des informations complémentaires :

- Consultez le site [https://gd.eppo.int/taxon/XYLEFA/photos](https://gd.eppo.int/taxon/XYLEFA/photos) pour voir plus de photos de symptômes,
- Consultez la page d'information du Ministère de l'Agriculture et de l’Alimentation
The UK wine industry – new threats
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