



BCPC 4th disease review

NIAB HQ

12th of October 2018

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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

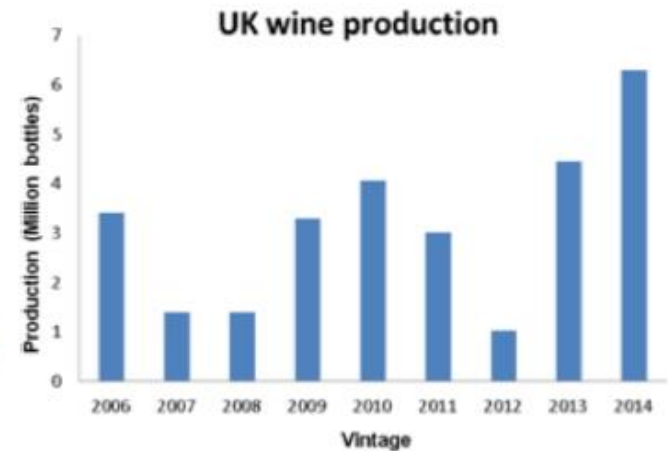


Challenges of growing vines in the UK



Challenges of growing vines in the UK

- Low yield = low profitability
 - Big variations in yield → sustainability
 - High diseases pressure → sustainability
 - Consistency in quality → good price/value?
 - Limited knowledge from/for the UK
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- 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



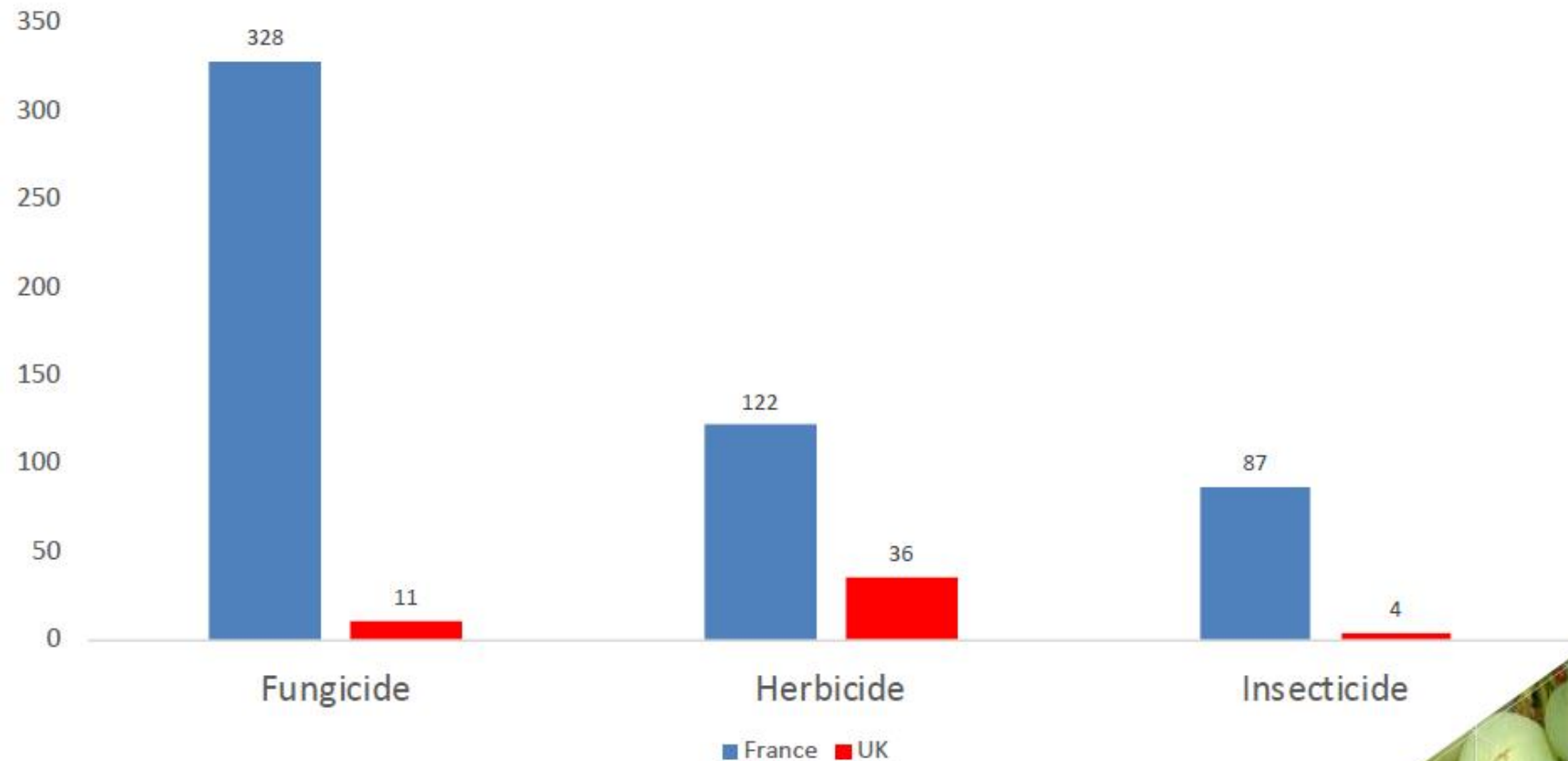
(...)



+ people and other items

The UK wine industry – Challenges

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



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

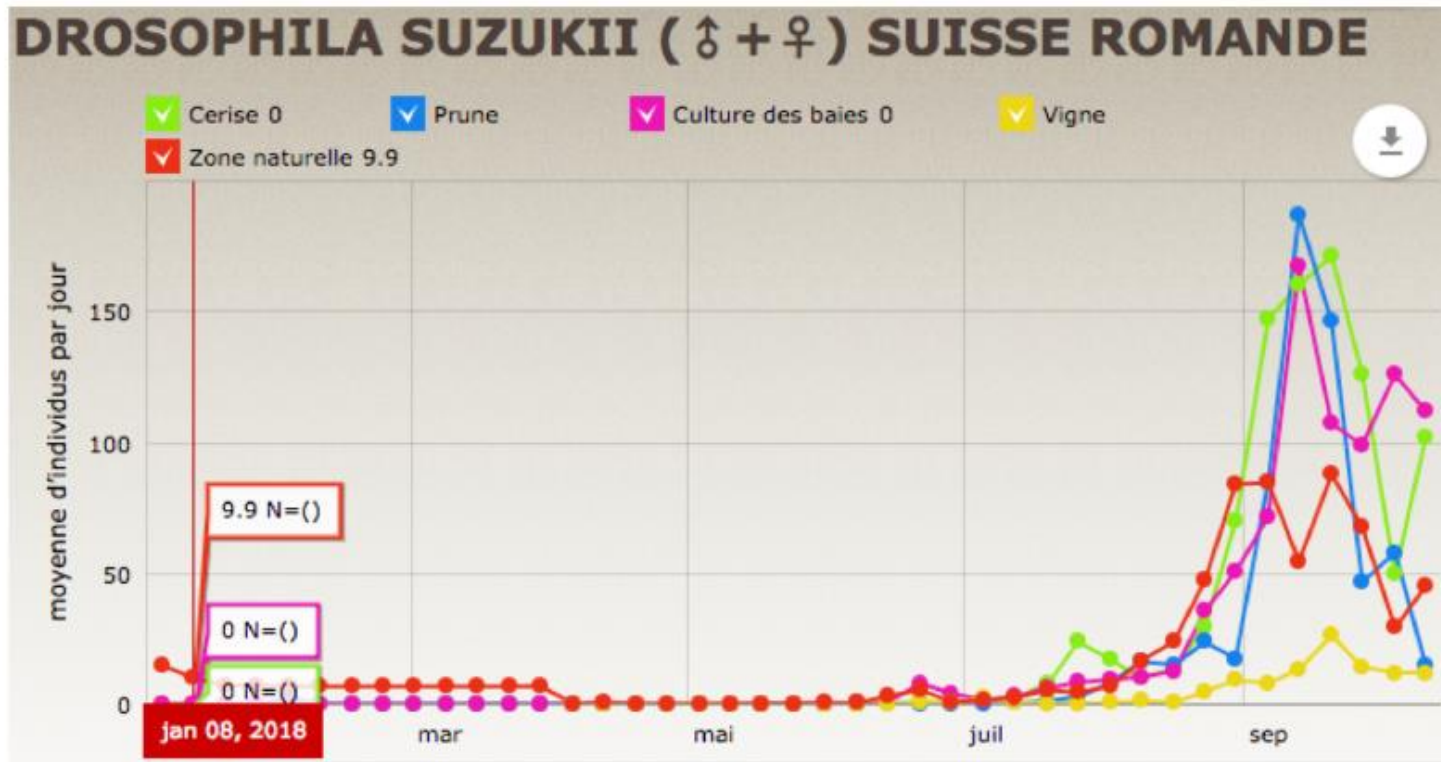
En cas de symptômes suspects, contactez les correspondants Fredon/Fdgdon :

FREDON Rhône-Alpes	Manuela DAGBA	manuela.dagba(a)fredon-rhone-alpes.fr	04 37 43 40 77
FREDON site de l'Ardèche	Damien DONATI	damien.donati(a)fredon07.fr	04 75 64 92 12
FREDON site de la Drôme	Patrice MONIER	patrice.monier(a)fredon26.fr	04 75 55 92 97
FREDON site de l'Isère	Marlène VIAL	marlene.vial(a)fredon38.fr	04 74 86 40 68
FREDON site de la Savoie	Marjorie SCHAMM	marjorie.schamm(a)fredon73-74.fr	04 57 33 46 89
FREDON Auvergne	Sylvain GRANJON	sylvain.granjon(a)fredon-auvergne.fr	04 73 42 16 24

Pour des informations complémentaires :

- Consultez le site <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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