



# ***EFSA Commodity Risk Assessment – Agrilus sp.***

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# EU DECENTRALISED AGENCIES



ECDC

ECHA

EEA

EMA

**EFSA**

587 Staff

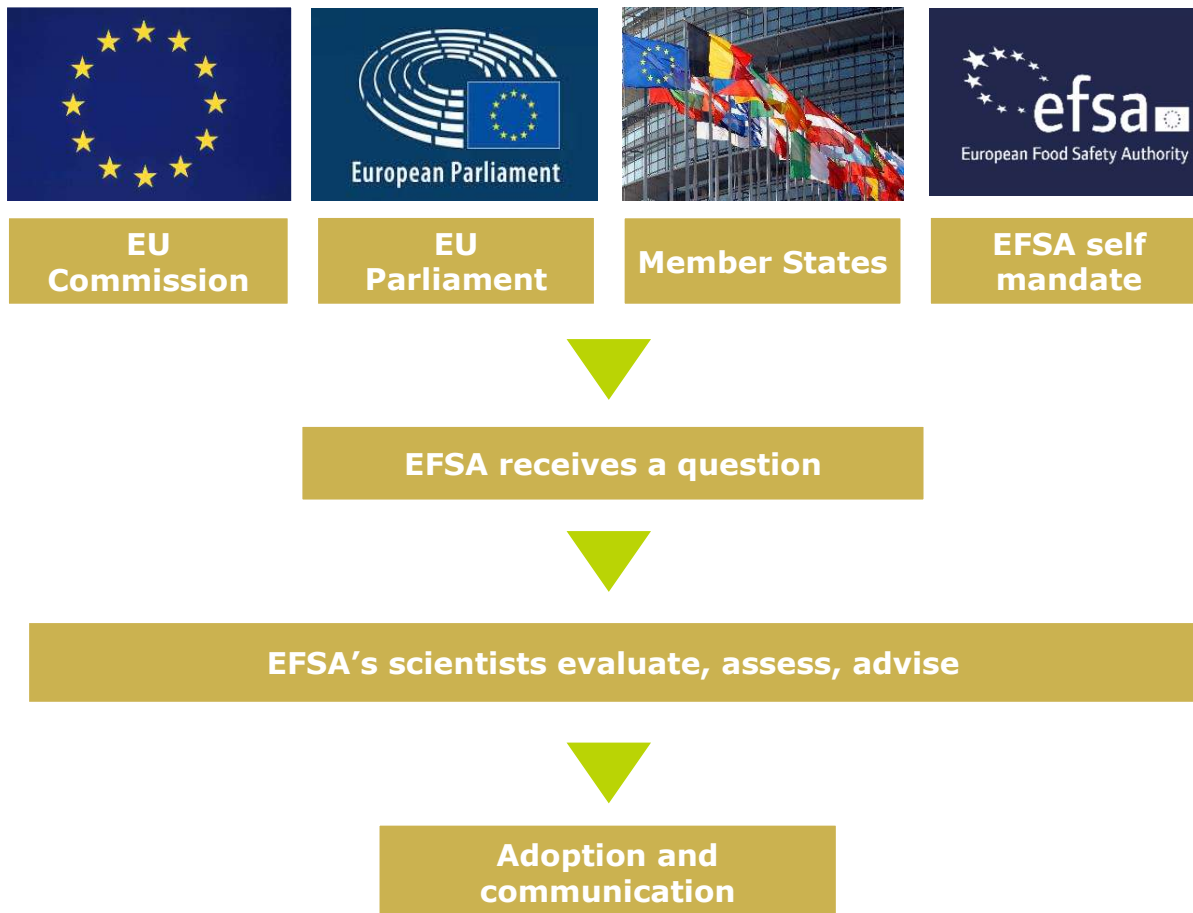
> 1600 external Experts

> 1000 meetings/year

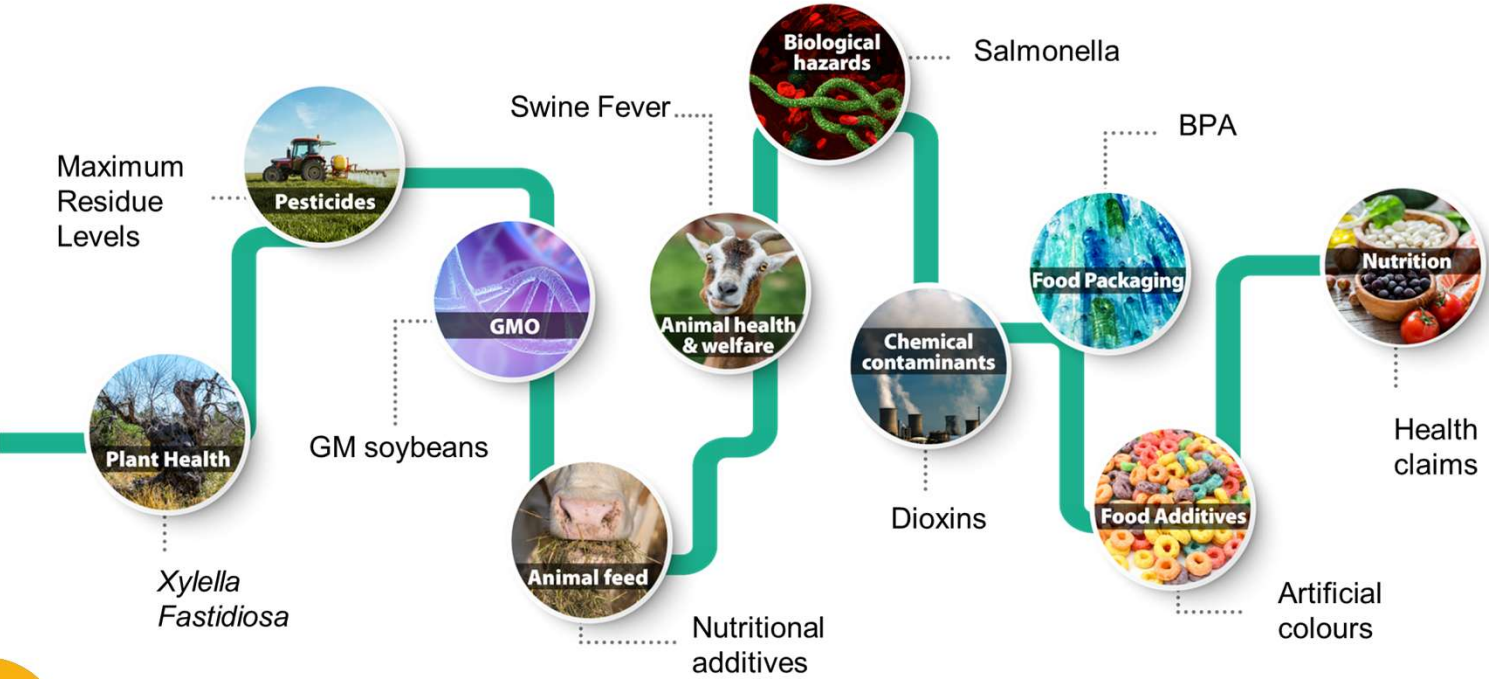
> 500 scientific outputs/year



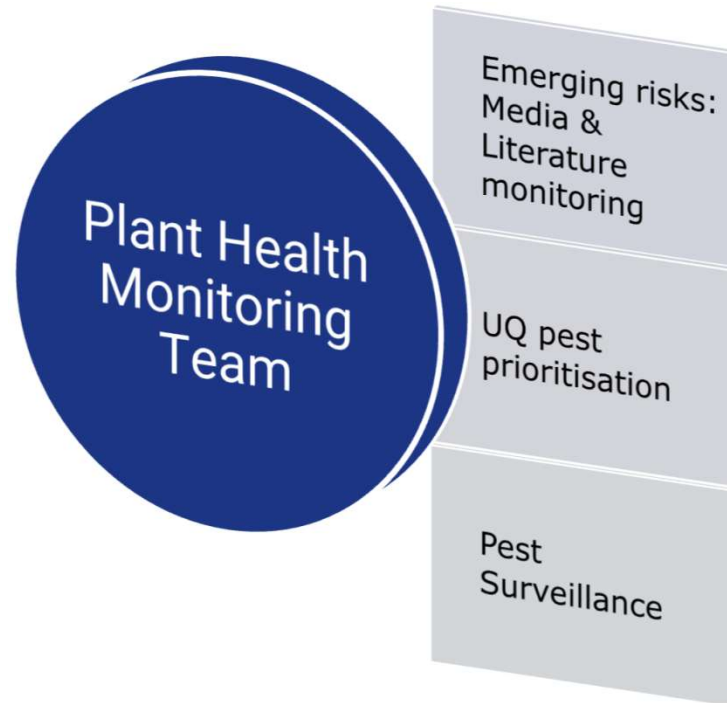
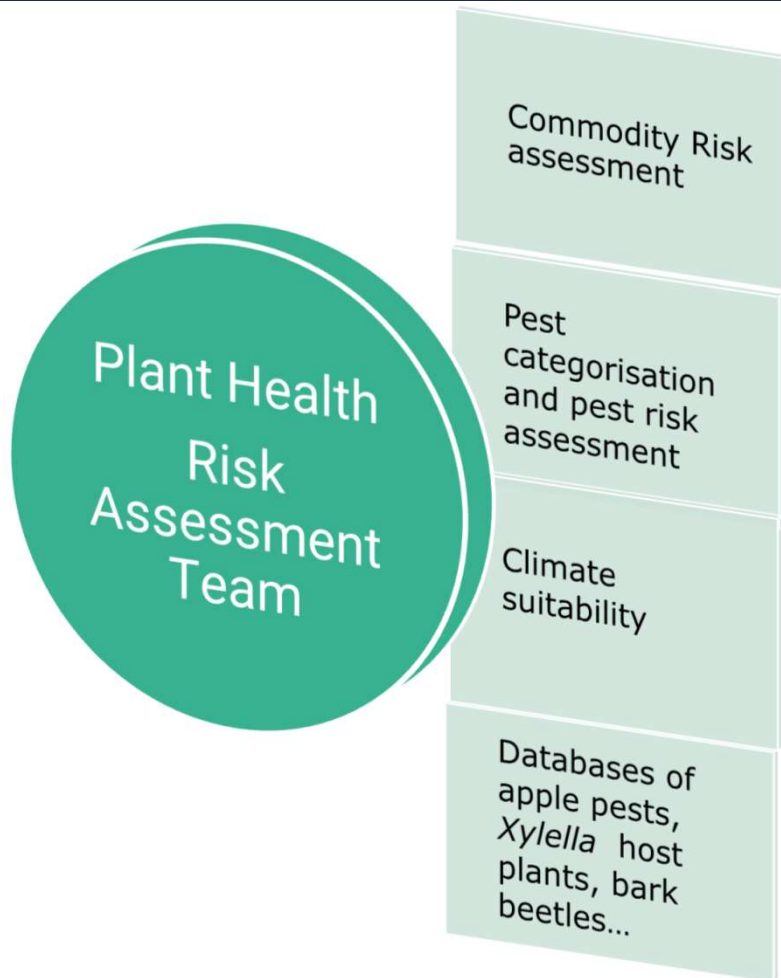
# EFSA MANDATES



# SCIENCE – FOOD SAFETY, ANIMAL HEALTH AND PLANT HEALTH FROM FARM TO FORK



# PLANT HEALTH IN EFSA



# GLOBAL TRADE AND PLANT PESTS

Trade in plants is the major pathway for introduction of plant pests and pathogens.



Commodity	Import Volume 2019
Living Plants	1 million tonnes
Fruit & Vegetables	16 million tonnes
Cut flowers	3 million tonnes




Courtesy: Roel Potting



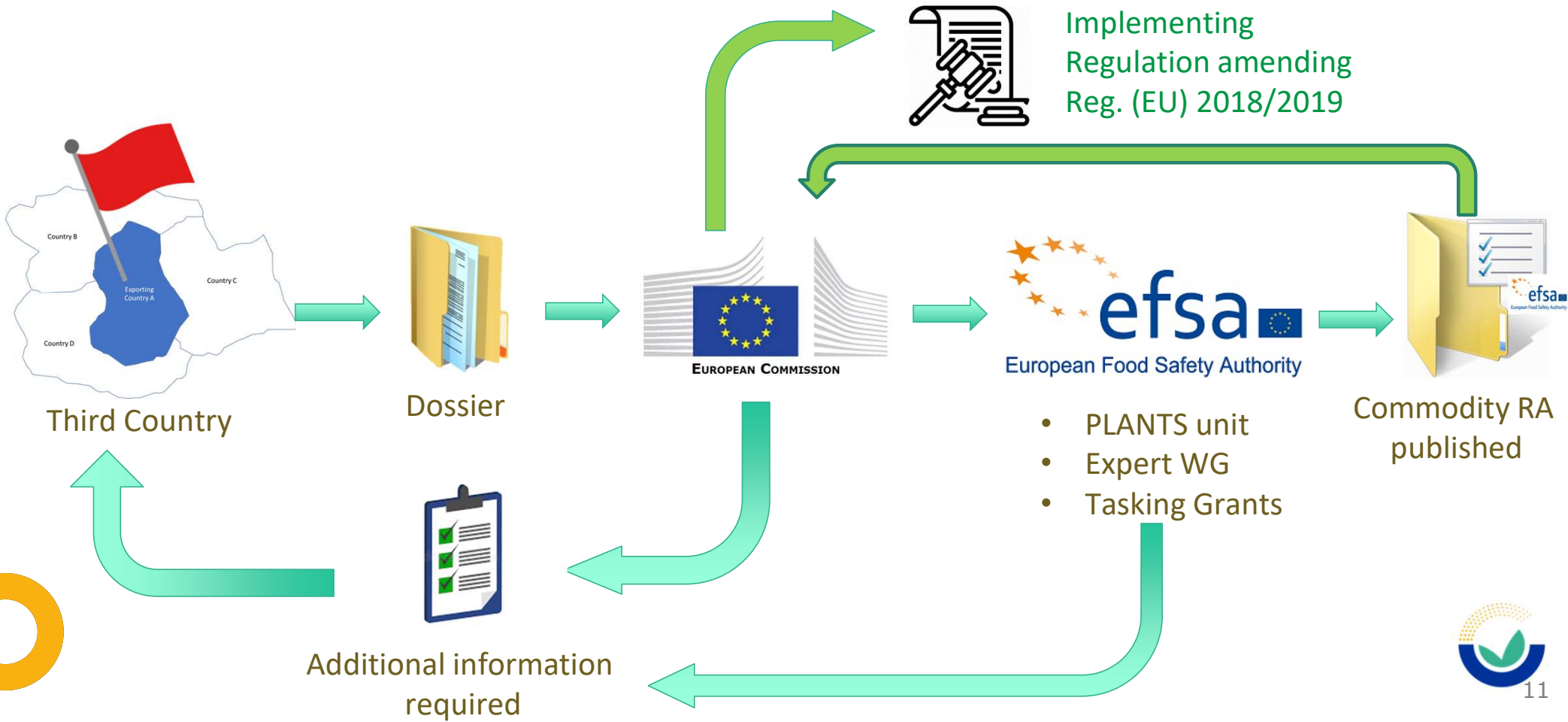
# NEW EU PLANT HEALTH LAW AND THE "HIGH RISK PLANTS"

The Plant Health Law (Regulation (EU) 2016/2031) increases the prevention against the introduction of new pests via imports from third countries. [Commission Implementing Regulation \(EU\) 2018/2019](#) establishes the list of **high risk plants** the introduction of which into the EU territory are provisionally prohibited from 14 December 2019 until a full risk assessment has been carried out.

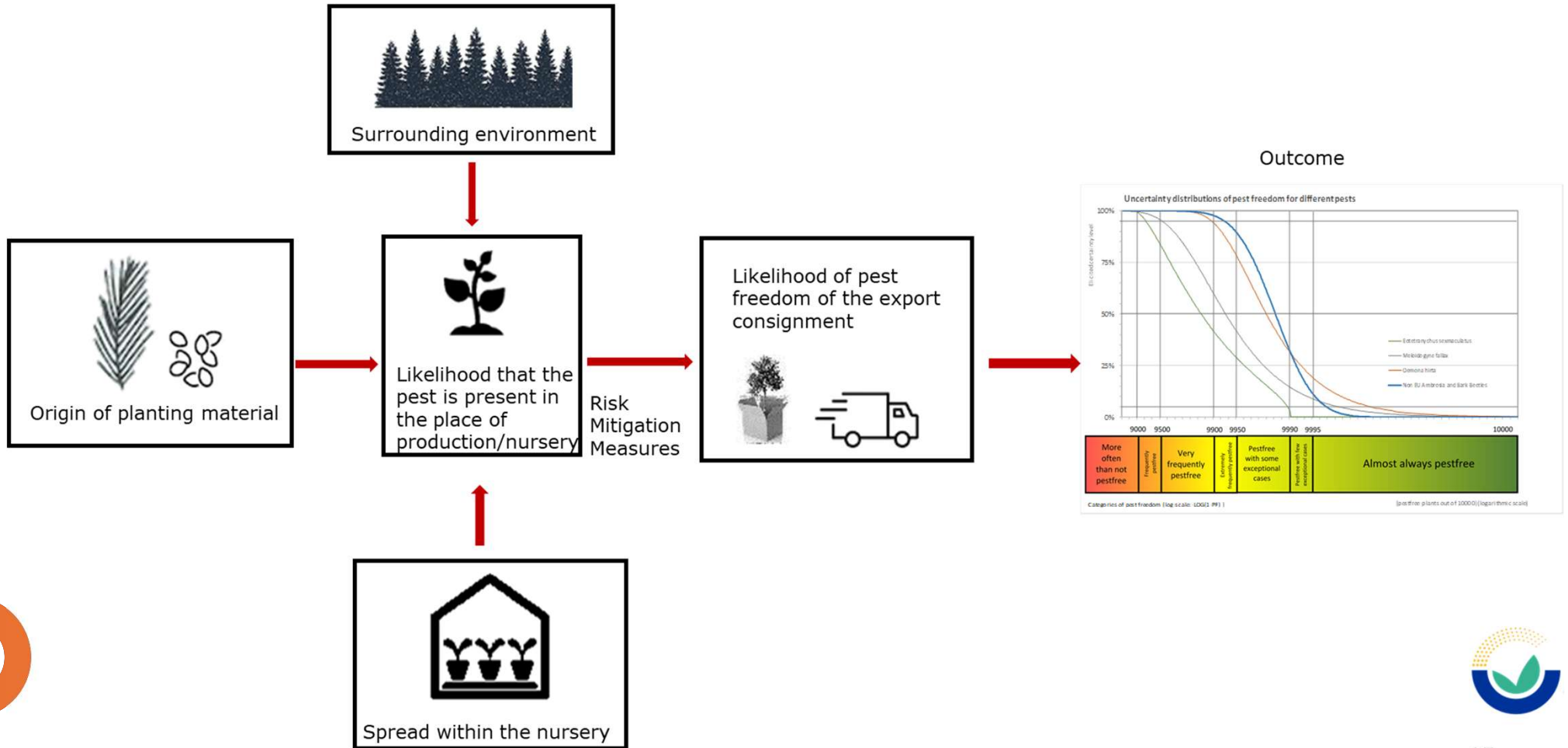


*Acacia* Mill., *Acer* L., *Albizia* Durazz., *Alnus* Mill., *Annona* L., *Bauhinia* L., *Berberis* L., *Betula* L., *Caesalpinia* L., *Cassia* L., *Castanea* Mill., *Cornus* L., *Corylus* L., *Crataegus* L., *Diospyros* L., *Fagus* L., *Ficus carica* L., *Fraxinus* L., *Hamamelis* L., *Jasminum* L., *Juglans* L., *Ligustrum* L., *Lonicera* L., *Malus* Mill., *Nerium* L., *Persea* Mill., *Populus* L., *Prunus* L., *Quercus* L., *Robinia* L., *Salix* L., *Sorbus* L., *Taxus* L., *Tilia* L., *Ulmus* L., and plants of *Ullucus tuberosus*

# COMMODITY RISK ASSESSMENT PROCEDURE



# Quantitative Commodity Risk Assessment



## Request from the United States to add heat treatment against *Agrilus planipennis* as import requirement of wood

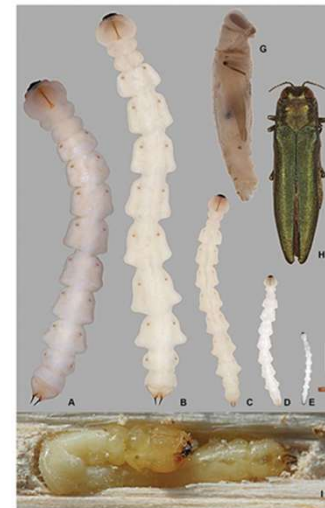
Scientific Opinion on heat treatment proposal for *A. planipennis* host wood (2011)

<https://doi.org/10.2903/j.efsa.2011.2185>

Council Directive 2000/29/EC required wood to be from an area free of *A. planipennis* or wood is squared or chipped (pieces < 2.5 cm)

EFSA was requested to:

assess whether heat treatment (60°C for 60 min.) offers a comparable level of protection as the requirements foreseen in Council Directive 2000/29/EC.



All stages of *Agrilus planipennis*. A, prepupa; B, instar IV; C, instar III; D, instar II; E, instar I; F, egg; G, pupa; H, adult; I, prepupa curled in chamber (photo UGA510033). Scale bar 2 mm. doi:10.1371/journal.pone.0033185.g014

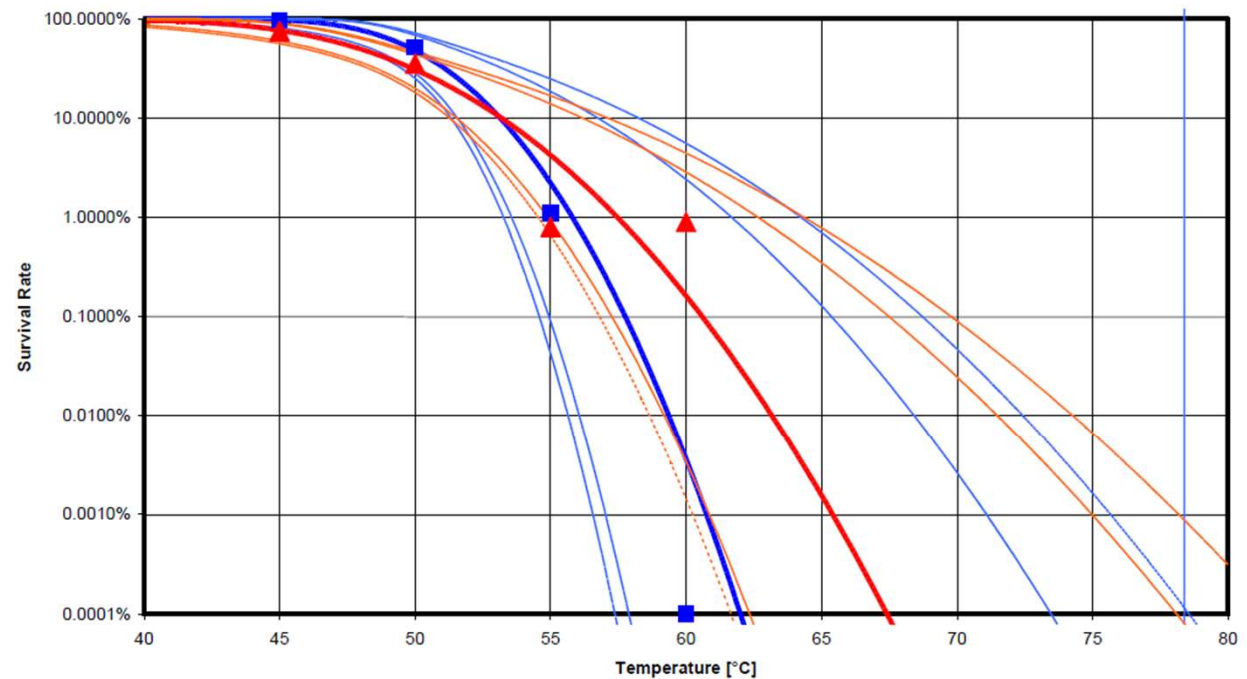


# Request from the United States to add heat treatment against *Agrilus planipennis* as import requirement of wood

Re-analysis of submitted dataset + analysis of additional publications

99% Control level at 95% CI is not achieved with 60 °C for 60 min.

Temperature needs to exceed 70° C for 60 min.



**Figure 2** Comparison of the estimated survival rates after a heat treatment of 60 min for different temperatures estimated from aggregated data of Dataset 0 (blue) and Dataset 1 (red). (Bold curve = estimator, thin curve = 95 % or 90 % confidence bands)



## Special requirements apply to the introduction into the EU of host plants of *Agrilus planipennis* coming from the United States and other countries

These requirements include wood from *Fraxinus* L.

Point 87 of Annex VII to CIR (EU) 2072/2019 provides that wood other than chips, particles, sawdust, shavings, wood waste and scrap and other than wood packaging material may only be introduced:

- from areas recognised as free from *A. planipennis*; or
- after the bark and at least 2.5 cm of the sapwood are removed; or
- after the wood has undergone ionizing irradiation to achieve a minimum dose of 1 kGy.



USDA, online



Modern Farmer, online



## Derogation request from the United States

Commodity risk assessment of ash logs from the US treated with sulfuryl fluoride to prevent the entry of *Agrilus planipennis* (2023)

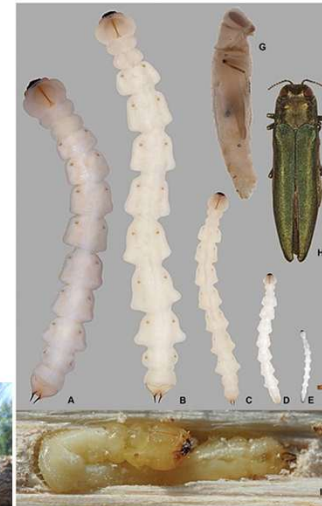
<https://efsa.onlinelibrary.wiley.com/doi/10.2903/j.efsa.2023.7850>

In 2021, the United States introduced a request to use sulfuryl fluoride (SF) on ash log shipments to treat *A. planipennis* for phytosanitary certification.

### EFSA was requested to:

assess the likelihood (level of certainty) of pest freedom from EAB of

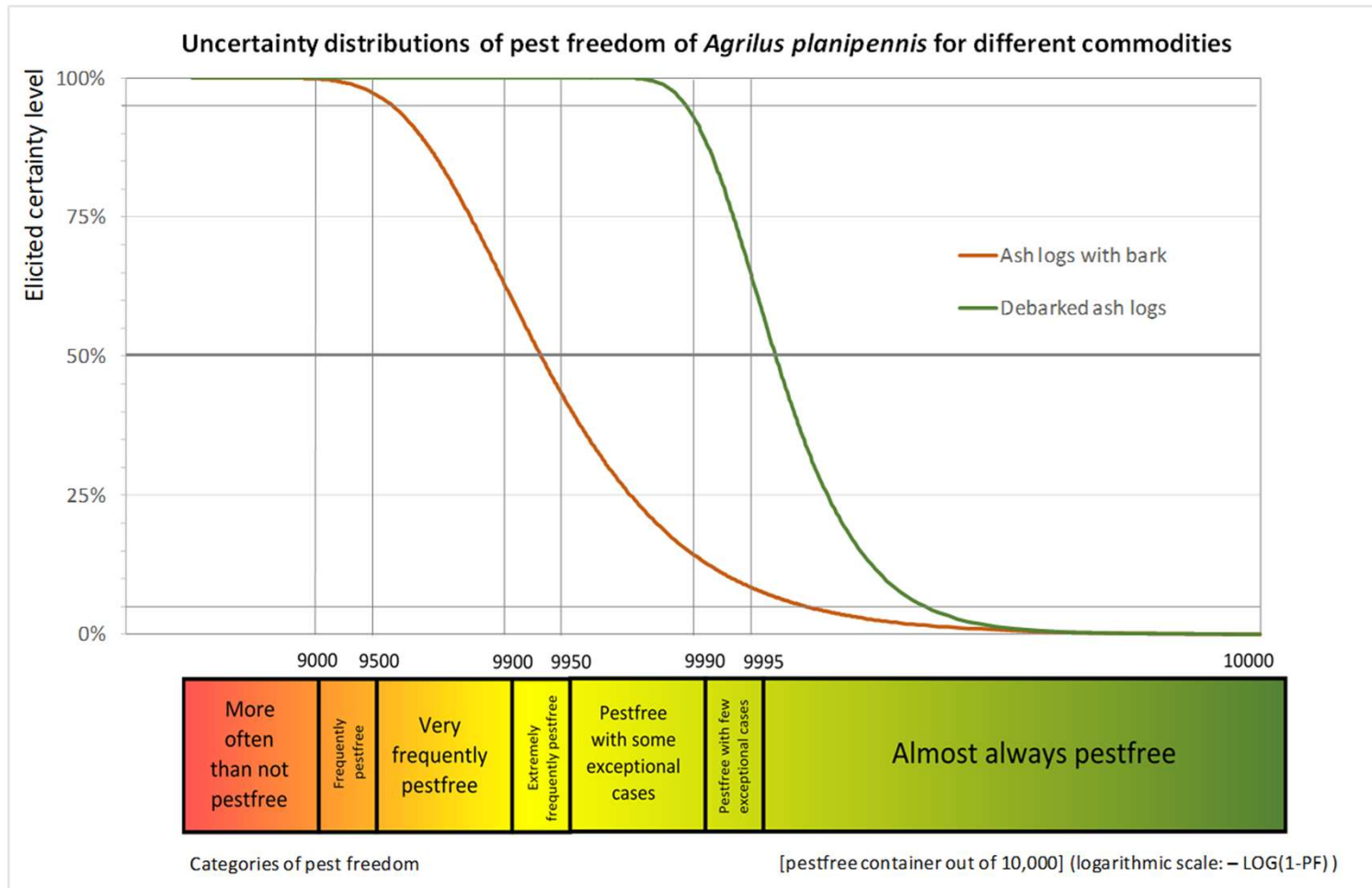
- ash logs with bark and
- debarked ash logs



All stages of *Agrilus planipennis*. A, prepupa; B, instar IV; C, instar III; D, instar II; E, instar I; F, egg; G, pupa; H, adult; I, prepupa curled in chamber (photo UGA510033). Scale bar 2 mm. doi:10.1371/journal.pone.0033185.g014



# Estimation of pest freedom (EKE) for two different ash commodities treated with SF



## Mandate on birchwood from Canada - *Agrilus anxius*

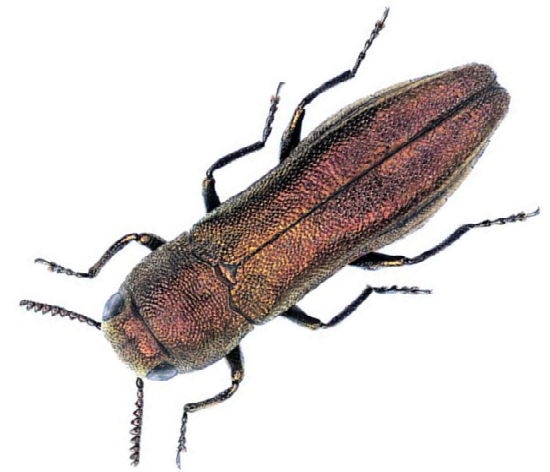
**Special requirement for birchwood** apply where *Agrilus anxius* occurs.

Point 92 of Annex VII to CIR (EU) 2019/2072 requires that:

- the **bark** and at least 2,5 cm of the outer sapwood are **removed** or;
- the **wood** has undergone **ionizing irradiation**

Canada introduced a **request to recognise a systems approach** for sawn birch wood including:

- Debarking
- Sawing
- Heat treatment
- Drying



## EFSA outputs on *Agrilus planipennis* + *Agrilus anxius*

Scientific Opinion on heat treatment proposal for *A. planipennis* host wood (2011) <https://doi.org/10.2903/j.efsa.2011.2185>

Pest Report & Datasheet for Priority Pest Ranking (2019) <https://zenodo.org/records/2784059>

Pest Survey Card on *A. planipennis* (2020) <https://efsa.onlinelibrary.wiley.com/doi/10.2903/sp.efsa.2020.EN-1945>

Crisis Preparedness Cooperation for *A. planipennis* (2020) <https://doi.org/10.2903/sp.efsa.2020.EN-1985>

Commodity risk assessment of ash logs from the US treated with sulfuryl fluoride to prevent the entry of *Agrilus planipennis* (2023) <https://efsa.onlinelibrary.wiley.com/doi/10.2903/j.efsa.2023.7850>

*Agrilus planipennis* Pest Report to support the ranking of EU candidate priority pests <https://efsa.onlinelibrary.wiley.com/doi/abs/10.2903/sp.efsa.2025.EN-9432>

*Agrilus anxius* Pest report to support the ranking of EU candidate priority pests <https://efsa.onlinelibrary.wiley.com/doi/abs/10.2903/sp.efsa.2025.EN-9433>

Pest survey card on *Agrilus anxius* <https://efsa.onlinelibrary.wiley.com/doi/abs/10.2903/sp.efsa.2020.EN-1777>



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