



Australian Government

Department of Agriculture,  
Fisheries and Forestry

# Being responsive and agile in a changing environment – Insights into the updated National Priority Plant Pests

## Annual Surveillance Workshop


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# National Priority Plant Pests (NPPPs)



Highlights key plant  
pest and disease  
threats

Guides action,  
collaboration and  
investment of public  
funds to address risks

## NPPP criteria

1. be injurious to plants, plant products, bees or impact social amenity,
2. be exotic to Australia, or have limited distribution and be under official control,
3. have potential to cause significant negative impact on national economies, the environment and/or community,
4. have potential to enter, establish and spread in Australia; and
5. there must be a clear benefit from, or requirement for, nationally coordinated action or approach.

# 2024 NPPP review- simple refresh criteria



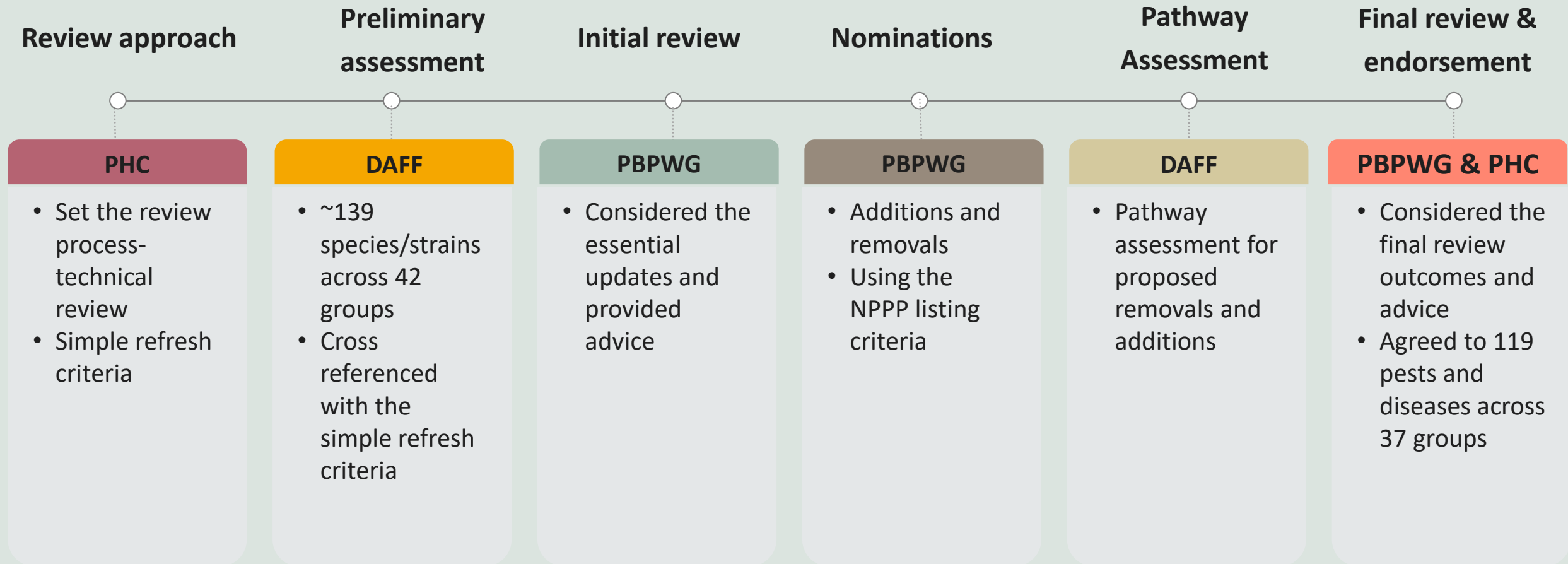
- 1) entered the country since 2019 and are now present in Australia not under official control or under an eradication program
- 2) no longer have a high-risk pathway to reach Australian borders
- 3) review and update the taxonomy and/or common names.
- 4) NPPP/EEPL\* overlap and assess suitability for continued inclusion

Remove those  
that no longer  
meet the NPPP  
criteria

Department of Agriculture, Fisheries and Forestry

\*National Priority List of Exotic Environmental Pests,  
Weeds and Diseases (EEPL)

# Who did the review and how





# What's out?

Lower risk  
pathway

Cyst nematodes  
of cereals  
(group)

Present  
in  
Australia

Alignment  
with  
environment

Exotic invasive  
ants (group)

Exotic drywood  
termites  
(group)

Exotic  
subterranean  
termites (group)

Wheat stem  
sawfly (group)

Leafminers  
(group)

Fall  
armyworm

Hessian fly  
(group)



# What's new?



Blood  
disease  
and moko  
disease  
of  
bananas



Spotted  
lantern  
fly  
*Lycorma  
delicatula*



Yellow-  
spotted  
stink bug  
*Erthesina  
fullo*

# Australia's National Priority Plant Pests (NPPPs)

The Plant Health Committee has identified National Priority Plant Pests (NPPP) that are exotic to Australia, under eradication, or have limited distribution and are under official control. Our NPPP highlights the threats Australia faces from plant pests and diseases. The NPPP guides national action and investment of public funds to address these threats. This effort often has broader benefits to the system than just in preparedness for the specific pest or disease. While by no means the only plant pests of biosecurity concern, the NPPP serve to highlight the sort of threats Australia faces.

## Indicators

- Some species present in Australia (including external territories), with limited distribution and under official control
- Strains and biotypes present in Australia
- Species within the genus present in Australia
- Also listed in the National Priority List of Exotic Environmental Pests, Weeds and Diseases (EEPL)



1

### Xylella & exotic vectors

Over 700 plant host species including native, commercial and ornamental plants



2

### Khapra beetle

Dried plant or animal products, grains, rice, oilseeds, dried fruits



3

### Spotted wing drosophila

Berries, cherries, peaches, nectarines, apricots, plums, prunes and grapes; apples, pears and other fruit with thicker skins once fruit begins to rot



4

### Fruit flies (exotic)

Berries, citrus, avocado, mango, papaya, passionfruit, melon, olive, summerfruit, lychees, cherries, apples and pears, and grapes



5

### Karnal bunt

Wheat, durum wheat, triticale



6

### Huanglongbing & vectors

Commercial varieties of citrus, especially oranges, mandarins and tangelos as well as related ornamentals



7

### Spongy moth

More than 1000 plant species including eucalypts and pine forests, fruit and nut trees



8

### Stink bugs (exotic)

Over 300 agricultural and ornamental plant species; our way of life



9

### Mites of bees (Apis spp.)

Australia's bees and the pollination services they provide to certain crops



10

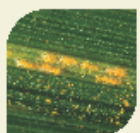
### Myrtle (eucalyptus) rust (exotic strains)

Over 100 known host plant species, mainly from the Myrtaceae family; eucalypt plantations, native forests and urban plantings



### Banana phytoplasma diseases

Bananas, coconut



### Barley stripe rust (exotic strains)

Barley



### Bees (Apis spp.) (exotic species)

Australia's honey bees and the crops that they pollinate



### Begomovirus & vectors (exotic strains & species)

Fibre, grain, vegetable and fruit crops including cotton, amaranth, soybeans, beans, cassava, potatoes, tomatoes, chilli, passionfruit, melon and papaya; nurseries



### Blood disease & moko disease of bananas

Bananas (including plantains) and Heliconia species



### Bursaphelenchus spp. and exotic sawyer beetle vectors

Plantation forest and ornamental trees including pine, larch and spruce; palm species including oil, date and coconut



### Candidatus Liberibacter solanacearum complex

Crops including potato, tomato, carrot, capsicum and chillies



### Citrus canker

Commercial citrus species and related plants



### Dutch elm disease

Elm trees in our cities, parks and gardens; garden and nursery industry



### Fire blight

Plants in the family Rosaceae, including apple, pear, hawthorn, quince, loquat, rose



### Grape phylloxera

Grapevines



### Grapevine leaf rust

Grapevines



### Invasive snails (exotic species)

Over 500 plant species including fruit and vegetables; nurseries and rice; natural environment and humans



### Longhorn beetles (Anoplophora spp.) (exotic species)

Many trees including apple, pear, citrus, walnut, stonefruit; many ornamental hardwood trees, freshly cut logs/timber with bark, some native trees



### Panama disease

Bananas



### Phytoplasmas 16SrI group

Many vegetable crops including carrot, lettuce, onion and spinach; grains including canola, wheat and barley; forestry and flowers, including the daisy (aster) family



### Pine pitch canker

Pines including Australia's pine plantations



### Plum pox virus

Stone fruit crops including plums, peaches, apricots, nectarines; cherries and related ornamentals



### Potato cyst nematode (exotic strains)

Plants in the Solanaceae family including potato, tomato and eggplant



### Potato late blight (exotic strains)

Potato, tomato and related species including eggplant



### Southern armyworm

Alfalfa, barley, buckwheat, clover, cotton, maize, millet, peanut, sugarbeet, soybean, sugarcane, tobacco, wheat, apple, grape, orange, papaya, peach, strawberry and a number of flowers, weeds and grasses



### Spotted lantern fly

More than 100 plant species from 33 families, including grapevine, apple, peach, black cherry, rose, poplar, maple, beech, and oak



### Stem borers of sugarcane and cereals (Chilo spp.) (exotic species)

Sugarcane, rice, sorghum and corn



### Sudden oak death (airborne Phytophthora spp.)

Forest species, avocado, ornamentals, chestnut, hazelnut, macadamia, blueberry, and production nurseries; native species and forestry



### Texas root rot

Thousands of plant species; cotton, grapes, fruit trees, forest trees, alfalfa, cherry, grains, soybean, lucerne and ornamental plants



### Tobamoviruses (exotic strains)

Many vegetable crops including melons, squash, tomatoes, potatoes, and capsicum



### Ug99 wheat stem rust

Grain (wheat, barley, oats and rye)



Scan for more information



# Opportunities for Surveillance

## **The NPPP is not a surveillance prioritisation list but they can:**

- Guide national action and investment to address these threats effectively
- Be used to highlight cross sectoral engagement to support industry collaboration
- leverage funding to solve surveillance R&D dilemmas
- Provide a focal point for discussions supporting national programs and engagement through SNPHS (and other PHC Subcommittees)





# Further information

## Plant pests and diseases

<https://www.agriculture.gov.au/biosecurity-trade/pests-diseases-weeds/plant/national-priority-plant-pests>

## Outbreak | National pest & disease outbreaks

<https://www.outbreak.gov.au>

Email: [plantpestpreparedness@aff.gov.au](mailto:plantpestpreparedness@aff.gov.au)



Preparedness  
and Response,  
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