**Australia’s National Priority Plant Pest (NPPP) List**

The Plant Health Committee has identified National Priority Plant Pests that are exotic to Australia, under eradication or have limited distribution. These are the focus of government investment and action, including funding through the Priority Pest and Disease Planning and Response. While by no means the only plant pests of biosecurity concern, the National Priority Plant Pests serve to highlight the sort of threats Australia faces.

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| --- | --- | --- | --- |
|  | **1. Xylella** (Pierce’s disease)  **Name:** *Xylella fastidiosa*  **Note:** Includes vectors  **Risks:** 350+ species including grapevine, olives, & almonds |  | **22. Panama disease**  **Name:** *Fusarium oxysporum* f. sp. *cubense* Tropical Race 4  **Risks:** Bananas |
|  | **2. Khapra beetle**  **Name:** *Trogoderma granarium*  **Risks:** Grains, rice, oilseeds, dried fruits |  | **23. Cyst nematodes**  (exotic species)  **Name:** Multiple *Heterodera* species  **Risks:** Grains, grasses and vegetables |
|  | **3. Spotted wing drosophila**  **Name:** *Drosophila suzukii*  **Risks:** Fruits (berries, cherries, nectarines, plums and grapes) |  | **24. Plum pox virus** (sharka)  **Name:** *Plum pox virus*  **Risks:** Prunus species (e.g. apricot, peach) |
|  | **4. Fruit flies** (exotic species)  **Name:** Multiple genera **Note:** Includes several *Bactrocera* species  **Risks:** 300+ species including fruit and vegetable trees |  | **25. Drywood termites**  **Name:** *Cryptotermes brevis, C.dudleyi* & *Incisitermes minor*  **Risks:** Structural timber |
|  | **5. Karnal bunt**  **Name:** *Tilletia indica*  **Risks:** Wheat, durum wheat, triticale |  | **26. Wheat stem sawfly**  **Name:** *Cephus cinctus* & *Cephus pygmeaus*  **Risks:** Grains |
|  | **6. Huanglongbing**  **Name:** ‘*Candidatus* Liberibacter asiaticus’  **Note:** Includes vectors  **Risks:** Commercial varieties of citrus |  | **27. Barley stripe rust**  (exotic strains)  **Name:** *Puccinia striiformis* f. sp. *hordei* (exotic strains)  **Risks:** Barley |
|  | **7. Invasive ants** (exotic species)  **Name:** Multiple genera **Note:** Includes RIFA, *Solenopsis invicta*  **Risks:** Environment, agriculture & human health |  | **28. Hessian fly**  **Name:** *Mayetiola destructor* & *Mayetiola hordei*  **Risks:** Cereal crops |
|  | **8. Gypsy moths**  **Name:** *Lymantria dispar* spp. complex & *Lymantria monacha*  **Risks:** 1000+ species including eucalypts,  pine forests, fruit & nut trees |  | **29. Subterranean termites**  **Name:** *Coptotermes formosanus* & *Coptotermes gestroi*  **Risks:** Infrastructure, forestry |
|  | **9. BMSB** (brown marmorated stink bug)  **Name:** *Halyomorpha halys*  **Risks:** 300+ species of plants |  | **30. Phytoplasma 16Srl group**  **Name:** Aster yellows  **Risks:** Wide host range |
|  | **10. Mites of bees**  (internal & external)  **Name:** Multiple genera **Note:** Includes Varroa, Tropilaelaps & Tracheal mites  **Risks:** Bee industry (pollination & honey) |  | **31. Armyworms**  **Name:** *Spodoptera frugiperda* & *Spodoptera eridania*  **Risks:** Wide host range including alfalfa, maize, & peanut |
|  | **11. Guava (myrtle/ eucalyptus) rust**  **Name:** *Austropuccinia psidii* (exotic strains)  **Risks:** 100+ species, mainly in the Myrtaceae family |  | **32. Exotic Tobamoviruses**  **Name:** Multiple species  **Note:** Includes CGMMV, KGMMV, ToBRFV, ZGMMV & others  **Risks:** Wide host range |
|  | **12. Invasive snails** (exotic species)  **Name:** Multiple genera  **Note:** Includes GAS, *Achatina fulica*  **Risks:** 500+ species |  | **33. Pine wilt nematode & vectors**  **Name:** *Bursaphelenchus cocophilus,* *B. xylophilus* & *Monochamus* spp.  **Risks:** Softwoods (pine) |
|  | **13. Zebra chip**  **Name: ‘***Candidatus* Liberibacter solanacearum’ complex  **Note:** Includes vectors  **Risks:** Potato, tomato, carrot, capsicum & chillies |  | **34. Longhorn beetles** **Name:** *Anoplophora chinensis, A. malasiaca,* & *A. glabripennis*  **Risks:** 100+ woody tree species |
|  | **14. *Phytophthora* species** (airborne)  **Name:** *Phytophthora ramorum* & *P.kernoviae*  **Risks:** Forest species, avocado & chestnut |  | **35. Grape phylloxera**  **Name:** *Daktulosphaira vitifoliae*  **Risks:** Grapevines |
|  | **15. Ug99** (wheat stem rust)  **Name:** *Puccinia graminis* f. sp*. tritici* (exotic strains)  **Risks:** Grains (wheat, barley, oats and rye) |  | **36. Sugarcane and cereal stem borers**  (exotic species)  **Name:** Multiple genera  **Note:** Includes*Chilo* spp. and other species  **Risks:** Sugarcane & cereal crops |
|  | **16. Citrus canker**  **Name:** *Xanthomonas citri* subsp. *citri*  **Risks:** Citrus species |  | **37. Potato late blight**  **Name:** *Phytophthora infestans* (exotic strains)  **Risks:** Potatoes |
|  | **17. Exotic bees**  **Name:** *Apis* species  **Note:** Includes *Apis mellifera, A. dorsata, A. florea & A. cerana)*  **Risks:** Bee industry (pollination & honey) |  | **38. Pine pitch canker**  **Name:** *Fusarium circinatum*  **Risks:** Pine trees |
|  | **18. Fire blight**  **Name:** *Erwinia amylovora*  **Risks:** Apple and pear |  | **39. Grapevine leaf rust**  **Name:** *Phakopsora euvitis*  **Risks:** Grapevines |
|  | **19. Potato cyst nematode**  (exotic strains)  **Name:** *Globodera* spp.  **Risks:** Solanaceous crops (potato,  tomato & eggplant). |  | **40. Exotic Begomoviruses**  **Name:** Multiple species of *Begomovirus* (exotic)  **Note:** Includes *Bemisia tabaci* (exotic, vector)  **Risks:** Tomato |
|  | **20. Leaf miners**  (exotic species)  **Name:** *Liriomyza* spp.  **Risks:** Vegetables, melons, onions, grains & cotton |  | **41. Dutch elm disease**  **Name:** *Ophiostoma novo-ulmi*  **Risks:** Elm trees |
|  | **21. Texas root rot**  **Name:** *Phymatotrichum omnivorum*  **Risks:** 2000+ species of plants |  | **42. Banana phytoplasma disease**  **Name:** *‘Candidatus* Phytoplasma *asteris’ & ‘Ca.* Phytoplasma *novoguineense’*  **Risks:** Bananas |

**Australia’s National Priority Plant Pests (2019)**

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| --- | --- | --- | --- |
| 1. Xylella and exotic vectors | Bacterial pathogens of the *Xylella* genus (*Xylella fastidiosa*)  Confirmed and unconfirmed exotic vectors:   |  |  | | --- | --- | | *Acrogonia citrina*  *Cicadella viridis*  *Draeculacephala Minerva*  *Homalodisca vitripennis*  *Philaenus spumarius* | *Acrogonia terminalis Dilobopterus costalimai Graphocephala atropunctata Oncometopia fasciali Xyphon fulgidum* | |
| 2. Khapra beetle | *Trogoderma granarium* |
| 3. Spotted wing drosophila | *Drosophila suzukii* |
| 4. Fruit flies | |  |  | | --- | --- | | High priority *Anastrepha ludens  Bactrocera carambolae  Bactrocera dorsalis  Bactrocera trivialis  Ceratitis capitata  Zeugodacus cucurbitae* | Medium priority *Bactrocera albistrigata  Bactrocera correcta  Bactrocera kirki  Bactrocera latifrons  Bactrocera tsuneonis  Bactrocera zonata Zeugodacus tau* | |
| 5. Karnal bunt | *Tilletia indica* |
| 6. *‘Candidatus* Liberibacter asiaticus’ (and other strains) | |  |  | | --- | --- | | *'Candidatus* Liberibacter africanus' *'Candidatus* Liberibacter americanus' | *'Candidatus* Liberibacter asiaticus' *Diaphorina citri* (vector) *Trioza erytreae* (vector) | |
| 7. Exotic invasive ants | |  |  | | --- | --- | | *Brachyponera chinensis Lepisiota frauenfeldi Nylanderia fulva* | *Solenopsis invicta Solenopsis richteri  Wasmannia auropunctata* | |
| 8. Gypsy moths | *Lymantria dispar asiatica*  *Lymantria dispar dispar*  *Lymantria dispar japonica*  *Lymantria monacha* |
| 9. Brown marmorated stink  bug (BMSB) | *Halyomorpha halys* |
| 10. Internal and external  mites of bees (*Apis* spp.) | *Acarapis woodi*  *Varroa jacobsoni*  *Tropilaelaps clareae*  *Varroa destructor*  *Tropilaelaps mercedesae* |
| 11. Guava (eucalyptus) rust  (exotic strains) | *Austropuccinia psidii* (exotic strains) |
| 12. Exotic invasive snails | *Achatina fulica Pomacea canaliculata*  *Monacha* spp.  *Caracollina lenticula  Massylaea* spp. |
| 13. *‘Candidatus* Liberibacter  solanacearum’ complex | *‘Candidatus* Liberibacter solanacearum’ haplotypes *Bactericera cockerelli* (vector of Haplotype A and B), (exotic) *Bactericera trigonica* (vector of Haplotype D and E) *Trioza apicalis* (vector of Haplotype C) |
| 14. Airborne Phytophthora | *Phytophthora kernoviae*  *Phytophthora ramorum* |
| 15. Ug99 wheat stem rust | *Puccinia graminis* f. sp. *tritici* (exotic strains) |
| 16. Citrus canker | *Xanthomonas citri* subsp. *citri* |
| 17. Exotic bees (*Apis* spp.) | *Apis cerana* (exotic)  *Apis mellifera capensis  Apis dorsata Apis mellifera scutellata  Apis florea Apis mellifera scutellata* (hybrid) |
| 18. Fire blight | *Erwinia amylovora* |
| 19. Potato cyst nematode  (exotic strains) | *Globodera* spp. including *G. pallida* and *G. rostochiensis* (exotic strains) |
| 20. Leaf miners | *Liriomyza bryoniae Liriomyza cicerina  Liriomyza huidobrensis Liriomyza sativae Liriomyza trifolii* |
| 21. Texas root rot | *Phymatotrichum omnivorum* |
| 22. Panama disease | *Fusarium oxysporum* f. sp. *cubense* Tropical Race 4 |
| 23. Cyst nematodes of  cereals | *Heterodera carotae Heterodera filipjevi Heterodera glycines Heterodera latipons  Heterodera sorghi Heterodera zeae* |
| 24. Plum pox virus | *Plum pox virus* |
| 25. Drywood termites | *Cryptotermes brevis*  *Cryptotermes dudleyi Incisitermes minor* |
| 26. Wheat stem sawfly | *Cephus cinctus*  *Cephus pygmeaus* |
| 27. Barley stripe rust  (exotic strains) | *Puccinia striiformis* f. sp. *hordei* (exotic strains) |
| 28. Hessian fly | *Mayetiola destructor*  *Mayetiola hordei* |
| 29. Subterranean termites | *Coptotermes formosanus*  *Coptotermes gestroi* |
| 30. Phytoplasma 16Srl  group | Phytoplasma 16Srl group (aster yellows group) |
| 31. Armyworms | *Spodoptera eridania*  *Spodoptera frugiperda* |
| 32. Exotic *Tobamovirus* | |  |  | | --- | --- | | *Cucumber fruit mottle mosaic virus  Cucumber green mottle mosaic virus Cucumber mottle virus  Kyuri green mottle mosaic virus Potato 14R virus  Ribgrass mosaic virus* | *Tobacco mosaic virus— Potato strain  Tomato brown rugose fruit virus Tomato mottle mosaic virus Turnip-vein clearing virus  Wasabi mottle virus Youcai mosaic virus  Zucchini green mottle mosaic virus* | |
| 33. *Bursaphelenchus* spp.  and exotic vectors | *Bursaphelenchus cocophilus*  *Bursaphelenchus xylophilus Monochamus* spp. (vector) |
| 34. Longhorn beetles | *Anoplophora chinensis*  *Anoplophora glabripennis Anoplophora malasiaca* |
| 35. Grape phylloxera | *Daktulosphaira vitifoliae* |
| 36. Exotic stem borers of   sugarcane and cereals | *Chilo auricilius Chilo infuscatellus Chilo orichalcociliella Chilo partellus Chilo polychrysa Chilo sacchariphagus Chilo terrenellus Chilo tumidicostalis Eldana saccharina Sesamia grisescens  Scirpophaga excerptalis* |
| 37. Potato late blight  (exotic strains) | *Phytophthora infestans* (exotic strains) |
| 38. Pine pitch canker | *Fusarium circinatum* |
| 39. Grapevine leaf rust | *Phakopsora euvitis* |
| 40. Exotic *Begomovirus*   (and vector) | *Begomovirus* (exotic)  *Bemisia tabaci* (exotic, vector) |
| 41. Dutch elm disease | *Ophiostoma novo-ulmi* |
| 42. Banana phytoplasma  diseases | *‘Candidatus* Phytoplasma asteris’ *‘Candidatus* Phytoplasma novoguineense’ |

**Further information can be found at:**https://www.agriculture.gov.au/pests-diseases-weeds/plant/national-priority-plant-pests-2019

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21. Texas root rot – source: Chris Anderson, NSW DPI, dpi.nsw.gov.au

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32. Exotic Tobamoviruses – source: Salvatore Davino, EPPO, gd.eppo.int

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