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Swedish University of Agricultural Sciences

SLU Risk Assessment of Plant Pests

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Swedish risk ranking of plant pests: additional species assessed – Report no. 2, 2026

Authors

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The Swedish risk ranking of plant pests project

SLU Risk Assessment of Plant Pests was requested by the *Swedish Board of Agriculture* (NPPO) to conduct a risk ranking of a target group of plant pests relevant to Sweden from a phytosanitary perspective. The risk ranking model FinnPRIO (Heikkilä et al. 2016) is used for the assessments and subsequent rankings. A description of the project aim, scope and methodology is presented in another report, i.e. Boberg and Björklund (2026).

This report presents the results of FinnPRIO assessments for a new batch of 14 species that were subsequently ranked together with 119 previously assessed species.

The following 14 species have now been added:

- *Anthonomus bisignifer* [ANTHBI]
- *Anthonomus signatus* [ANTHSI]
- *Begomovirus birdi* [BGYMV0]
- *Begomovirus costai* [BGMV00]
- *Begomovirus cucurbitapeponis* [SLCV00]
- *Begomovirus solanumvariati* [TOMOV0]
- *Curtovirus betae* [BCTV00]
- *Exomala orientalis* [ANMLOR]
- *Phyrdenus muriceus* [PHRDMU]
- *Ralstonia syzygii* subsp. *indonesiensis* [RALSSI]
- *Rhigopsidius tucumanus* [RHGPTU]
- *Xiphinema americanum* (sensu stricto) [XIPHAA]
- *Xiphinema bricolense* [XIPHBC]
- *Xiphinema rivesi* (non-EU populations) [XIPHRI]

A complete list of all assessed species and date of the assessments can be found in Appendix 1.

Results

The pest scores calculated for the FinnPRIO component *Impact* along with the composite *Invasion* scores (*Entry* × *Establishment & Spread*) and *Risk* scores (*Entry* × *Establishment & Spread* × *Impact*) are presented in two figures below. The dots in the figures represent the median values of 50 000 iterations and the whiskers represent the 5th and 95th percentiles of the probability distributions of the scores. The results of the assessments can also be explored using the FinnPRIO-Explorer Adapted application available at https://finnprio-explorer-adapted.serve.scilifelab.se/app/finnprio-explorer-adapted. For example, the underlying scores for each FinnPRIO assessment component can be accessed under the tab “Show pests in data table”. The most recent assessments can be identified by sorting the table by “Assessed, month/year” so that they appear first.

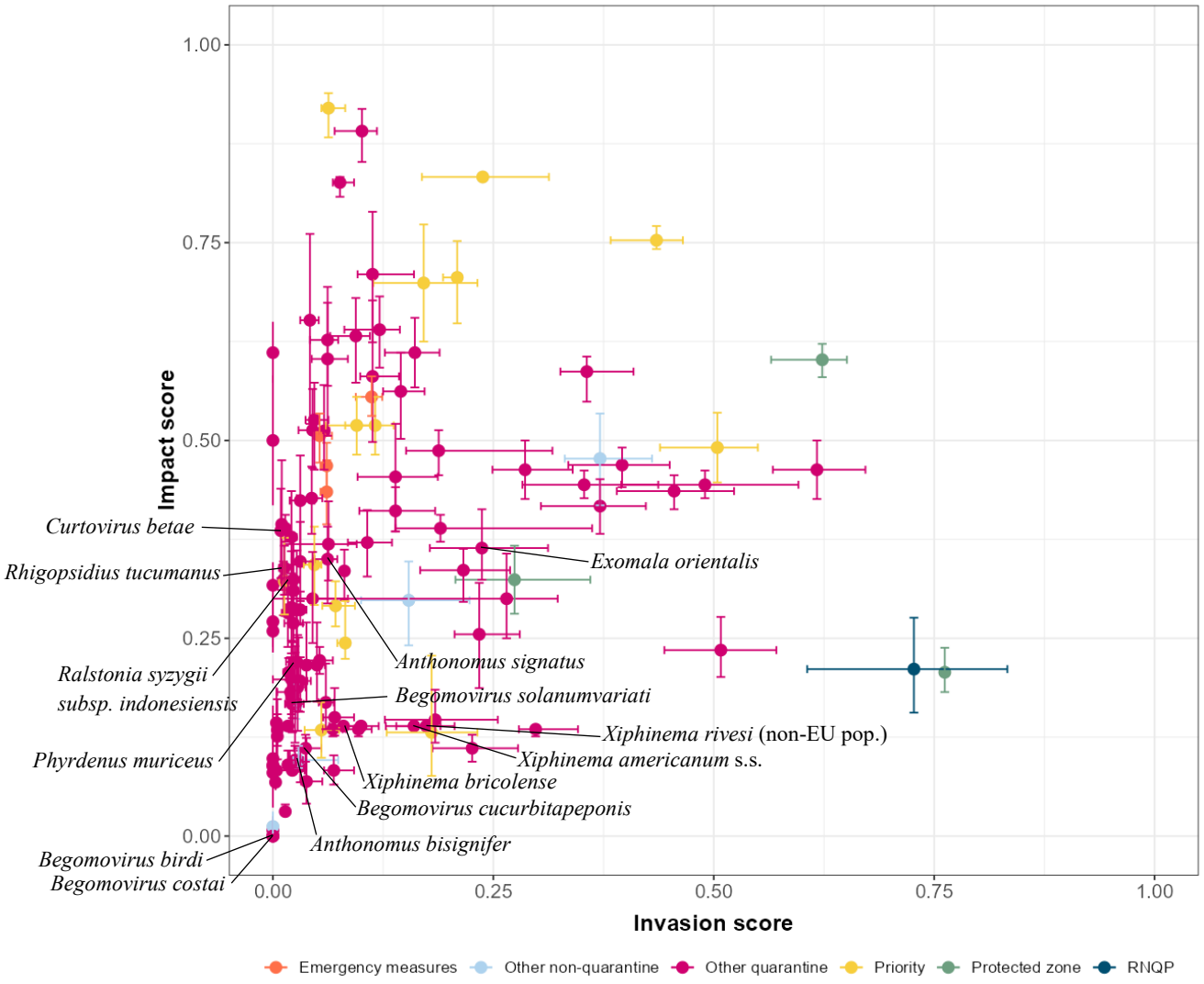
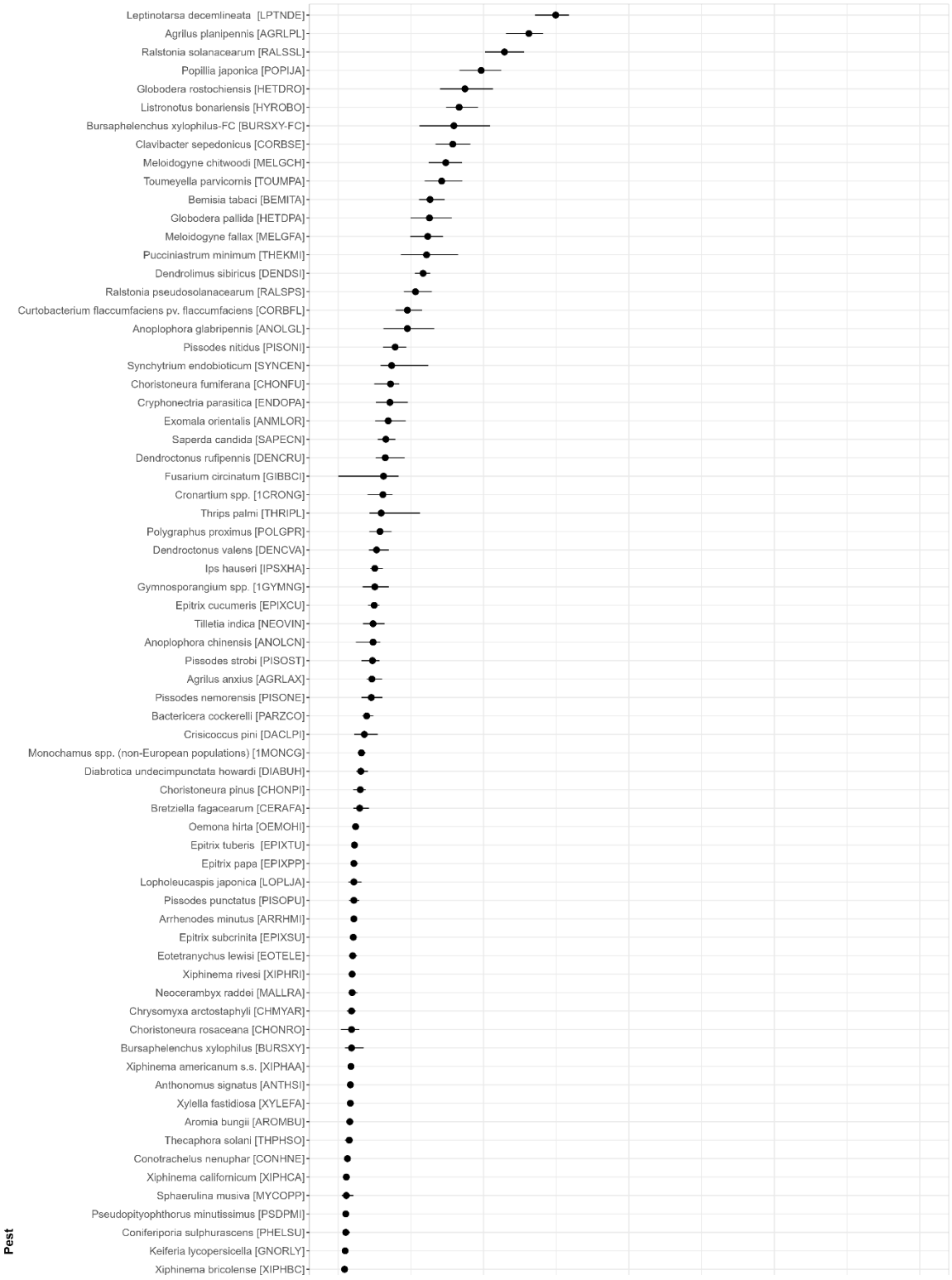


Figure 1. The risk of each pest is visualized by plotting the likelihood of invasion scores (*Entry* × *Establishment & Spread*) against the scores for *Impact* for each assessed pest. The approximate position of the newly assessed species are indicated in the figure. The dots in the figures represent the median values and the whiskers represent the 5th and 95th percentiles. As a general guide to interpretation, species in the lower left represent the lowest estimated risk, whereas risk increases toward the upper right as both invasion and impact scores increase.


Pest
Leptinotarsa decemlineata [LPTNDE]
Agrilus planipennis [AGRLPL]
Ralstonia solanacearum [RALSSL]
Popillia japonica [POPIJA]
Globodera rostochiensis [HETDRO]
Listronotus bonariensis [HYROBO]
Bursaphelenchus xylophilus-FC [BURSXY-FC]
Clavibacter sepedonicus [CORBSE]
Meloidogyne chitwoodi [MELGCH]
Toumeyella parvicornis [TOUMPA]
Bemisia tabaci [BEMITA]
Globodera pallida [HETDPA]
Meloidogyne fallax [MELGFA]
Pucciniastrum minimum [THEKMI]
Dendrolimus sibiricus [DENDSI]
Ralstonia pseudosolanacearum [RALSPS]
Curtobacterium flaccumfaciens pv. flaccumfaciens [CORBFL]
Anoplophora glabripennis [ANOLGL]
Pissodes nitidus [PISONI]
Synchytrium endobioticum [SYNCEN]
Choristoneura fumiferana [CHONFU]
Cryphonectria parasitica [ENDOPA]
Exomala orientalis [ANMLOR]
Saperda candida [SAPECN]
Dendroctonus rufipennis [DENCRU]
Fusarium circinatum [GIBBCI]
Cronartium spp. [1CRONG]
Thrips palmi [THRIPL]
Polygraphus proximus [POLGPR]
Dendroctonus valens [DENCVA]
Ips hauseri [IPSXHA]
Gymnosporangium spp. [1GYMNG]
Epitrix cucumeris [EPIXCU]
Tilletia indica [NEOVIN]
Anoplophora chinensis [ANOLCN]
Pissodes strobi [PISOST]
Agrilus anxius [AGRLAX]
Pissodes nemorensis [PISONE]
Bactericera cockerelli [PARZCO]
Crisicoccus pini [DACLPI]
Monochamus spp. (non-European populations) [1MONCG]
Diabrotica undecimpunctata howardi [DIABUH]
Choristoneura pinus [CHONPI]
Bretziella fagacearum [CERAFA]
Oemona hirta [OEMOHI]
Epitrix tuberis [EPIXTU]
Epitrix papa [EPIXPP]
Lopholeucaspis japonica [LOPLJA]
Pissodes punctatus [PISOPU]
Arrhenodes minutus [ARRHMI]
Epitrix subcrinita [EPIXSU]
Eotetranychus lewisi [EOTELE]
Xiphinema rivesi [XIPHRI]
Neocerambyx raddei [MALLRA]
Chrysomyxa arctostaphyli [CHMYAR]
Choristoneura rosaceana [CHONRO]
Bursaphelenchus xylophilus [BURSXY]
Xiphinema americanum s.s. [XIPHAA]
Anthonomus signatus [ANTHSI]
Xylella fastidiosa [XYLEFA]
Aromia bungii [AROMBU]
Thecaphora solani [THPHSO]
Conotrachelus nenuphar [CONHNE]
Xiphinema californicum [XIPHCA]
Sphaerulina musiva [MYCOPP]
Pseudopityophthorus minutissimus [PSDPMI]
Coniferiporia sulphurascens [PHELSU]
Keiferia lycopersicella [GNORLY]
Xiphinema bricolense [XIPHBC]

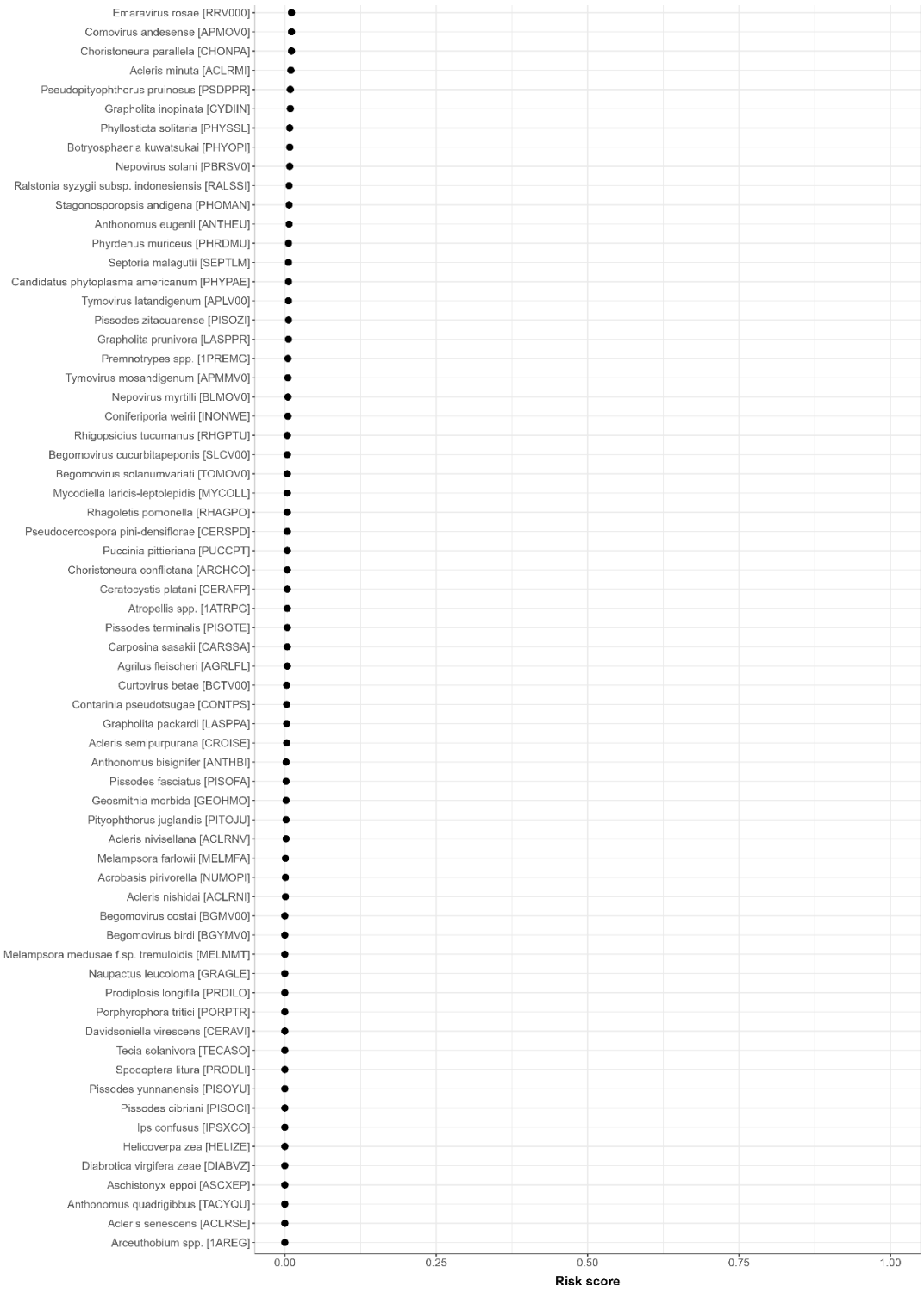


Figure 2. FinnPRIO *Risk* scores. The dots in the figures represent the median values and the whiskers represent the 5th and 95th percentiles. Note that the components of manageability are not included in the *Risk* score. Abbreviations following *Bursaphelenchus xylophilus* refer to current climate (CC) and future climate (FC).

References

Boberg, J. and Björklund, N. (2026) Project report - Swedish Risk Ranking of Plant Pests (SweRRPP). Technical report SLU.ua.2022.2.6-4500. SLU Risk Assessment of Plant Pests, Swedish University of Agricultural Sciences.

Heikkilä, J., Tuomola, J., Pouta, E., & Hannunen, S. (2016). FinnPRIO: a model for ranking invasive plant pests based on risk. Biological Invasions, 18(7), 1827-1842. https://doi.org/10.1007/s10530-016-1123-4

Appendix 1. List of all the assessed species/genera and date of assessment

Pest name	EPPO code	Assessment date
Acleris minuta	ACLRMI	18.06.2025
Acleris nishidai	ACLRNI	18.06.2025
Acleris nivisellana	ACLRNV	18.06.2025
Acleris semipurpurana	CROISE	09.01.2026
Acleris senescens	ACLRSE	18.06.2025
Acrobasis pirivorella	NUMOPI	08.10.2021
Agrilus anxius	AGRLAX	31.03.2021
Agrilus fleischeri	AGRLFL	11.06.2021
Agrilus planipennis	AGRLPL	04.06.2021
Anoplophora chinensis	ANOLCN	05.05.2021
Anoplophora glabripennis	ANOLGL	18.06.2025
Anthonomus bisignifer	ANTHBI	29.05.2026
Anthonomus eugenii	ANTHEU	11.06.2021
Anthonomus quadrigibbus	TACYQU	17.05.2021
Anthonomus signatus	ANTHSI	29.05.2026
Arceuthobium spp.	1AREG	20.03.2025
Aromia bungii	AROMBU	09.01.2026
Arrhenodes minutus	ARRHMI	31.05.2021
Aschistonyx eppoi	ASCXEP	10.06.2021
Atropellis spp.	1ATRPG	16.06.2021
Bactericera cockerelli	PARZCO	19.12.2025
Begomovirus birdi	BGYMV0	29.05.2026
Begomovirus costai	BGMV00	29.05.2026
Begomovirus cucurbitapeponis	SLCV00	29.05.2026
Begomovirus solanumvariati	TOMOV0	29.05.2026
Bemisia tabaci	BEMITA	28.05.2021
Botryosphaeria kuwatsukai	PHYOPI	31.03.2026
Bretziella fagacearum	CERAFA	17.04.2026
Bursaphelenchus xylophilus (Current Climate)	BURSXY	05.05.2021
Bursaphelenchus xylophilus (Future Climate)	BURSXY	28.04.2021
Candidatus phytoplasma americanum	PHYPAE	18.12.2025
Carposina sasakii	CARSSA	13.06.2021
Ceratocystis platani	CERAFP	01.02.2022
Choristoneura conflictana	ARCHCO	17.06.2025
Choristoneura fumiferana	CHONFU	13.08.2024
Choristoneura parallela	CHONPA	13.08.2024
Choristoneura pinus	CHONPI	17.06.2025

Pest name	EPPO code	Assessment date
Choristoneura rosaceana	CHONRO	17.06.2025
Chrysomyxa arctostaphyli	CHMYAR	08.02.2022
Clavibacter sepedonicus	CORBSE	19.03.2025
Comovirus andesense	APMOV0	18.12.2025
Coniferiporia sulphurascens	PHELSU	06.05.2021
Coniferiporia weirii	INONWE	06.05.2021
Conotrachelus nenuphar	CONHNE	11.06.2021
Contarinia pseudotsugae	CONTPS	14.06.2021
Crisicoccus pini	DACLPI	28.03.2022
Cronartium spp.	1CRONG	29.06.2021
Cryphonectria parasitica	ENDOPA	29.06.2021
Curtobacterium flaccumfaciens pv. flaccumfaciens	CORBFL	20.03.2025
Curtovirus betae	BCTV00	29.05.2026
Davidsoniella virescens	CERAVI	02.02.2022
Dendroctonus rufipennis	DENCRU	30.06.2021
Dendroctonus valens	DENCVA	30.06.2021
Dendrolimus sibiricus	DENDSI	24.09.2021
Diabrotica undecimpunctata howardi	DIABUH	18.06.2025
Diabrotica virgifera zeae	DIABVZ	17.03.2025
Emaravirus rosae	RRV000	13.08.2024
Eotetranychus lewisi	EOTELE	31.03.2026
Epitrix cucumeris	EPIXCU	19.12.2025
Epitrix papa	EPIXPP	02.02.2026
Epitrix subcrinita	EPIXSU	19.12.2025
Epitrix tuberis	EPIXTU	19.12.2025
Exomala orientalis	ANMLOR	29.05.2026
Fusarium circinatum	GIBBCI	13.08.2024
Geosmithia morbida	GEOHMO	10.02.2022
Globodera pallida	HETDPA	19.12.2025
Globodera rostochiensis	HETDRO	19.12.2025
Grapholita inopinata	CYDIIN	23.06.2021
Grapholita packardi	LASPPA	18.08.2021
Grapholita prunivora	LASPPR	16.06.2021
Gymnosporangium spp.	1GYMNG	07.06.2021
Helicoverpa zea	HELIZE	17.03.2025
Ips confusus	IPSXCO	08.10.2021
Ips hauseri	IPSXHA	05.01.2022
Keiferia lycopersicella	GNORLY	13.08.2024
Leptinotarsa decemlineata	LPTNDE	19.12.2025
Listronotus bonariensis	HYROBO	17.04.2026
Lopholeucaspis japonica	LOPLJA	20.03.2025
Melampsora farlowii	MELMFA	26.05.2021
Melampsora medusae f.sp. *tremuloidis*	MELMMT	29.08.2024

Pest name	EPPO code	Assessment date
Meloidogyne chitwoodi	MELGCH	19.12.2025
Meloidogyne fallax	MELGFA	18.12.2025
Monochamus spp. (non-European populations)	1MONCG	28.04.2021
Mycodiella laricis-leptolepidis	MYCOLL	31.03.2026
Naupactus leucoloma	GRAGLE	19.12.2025
Neocerambyx raddei	MALLRA	31.03.2026
Nepovirus myrtilli	BLMOV0	13.08.2024
Nepovirus solani	PBRSV0	18.12.2025
Oemona hirta	OEMOHI	18.06.2025
Phyllosticta solitaria	PHYSSL	31.03.2026
Phyrdenus muriceus	PHRDMU	29.05.2026
Pissodes cibriani	PISOCI	15.08.2024
Pissodes fasciatus	PISOFA	15.08.2024
Pissodes nemorensis	PISONE	14.08.2024
Pissodes nitidus	PISONI	15.08.2024
Pissodes punctatus	PISOPU	14.08.2024
Pissodes strobi	PISOST	03.05.2021
Pissodes terminalis	PISOTE	14.08.2024
Pissodes yunnanensis	PISOYU	14.08.2024
Pissodes zitacuarense	PISOZI	14.08.2024
Pityophthorus juglandis	PITOJU	20.09.2021
Polygraphus proximus	POLGPR	17.04.2026
Popillia japonica	POPIJA	29.04.2025
Porphyrophora tritici	PORPTR	17.06.2025
Premnotrypes spp.	1PREMG	31.03.2026
Prodiplosis longifila	PRDILO	17.06.2025
Pseudocercospora pini-densiflorae	CERSPD	13.08.2024
Pseudopityophthorus minutissimus	PSDPMI	31.03.2026
Pseudopityophthorus pruinosus	PSDPPR	31.03.2026
Puccinia pittieriana	PUCCPT	18.12.2025
Pucciniastrum minimum	THEKMI	13.08.2024
Ralstonia pseudosolanacearum	RALSPS	29.05.2026
Ralstonia solanacearum	RALSSL	29.05.2026
Ralstonia syzygii subsp. *indonesiensis*	RALSSI	29.05.2026
Rhagoletis pomonella	RHAGPO	11.06.2021
Rhigopsidius tucumanus	RHGPTU	29.05.2026
Saperda candida	SAPECN	31.03.2026
Septoria malagutii	SEPTLM	31.03.2026
Sphaerulina musiva	MYCOPP	13.08.2024
Spodoptera litura	PRODLI	17.03.2025
Stagonosporopsis andigena	PHOMAN	24.03.2026
Synchytrium endobioticum	SYNCEN	29.04.2021
Tecia solanivora	TECASO	19.12.2025

Pest name	EPPO code	Assessment date
Thecaphora solani	THPHSO	31.03.2026
Thrips palmi	THRIPL	19.03.2025
Tilletia indica	NEOVIN	19.03.2025
Toumeyella parvicornis	TOUMPA	30.04.2025
Tymovirus latandigenum	APLV00	18.12.2025
Tymovirus mosandigenum	APMMV0	18.12.2025
Xiphinema americanum (sensu stricto)	XIPHAA	29.05.2026
Xiphinema bricolense	XIPHBC	29.05.2026
Xiphinema californicum	XIPHCA	29.05.2026
Xiphinema rivesi (non-EU populations)	XIPHRI	29.05.2026
Xylella fastidiosa	XYLEFA	20.03.2025