Update of the Xylella spp. host plant database – systematic literature search up to 31 December 2021

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Abstract
This Scientific report provides an update of the Xylella spp. host plant database, aiming to provide information and scientific support to risk assessors, risk managers and researchers dealing with Xylella spp. Upon a mandate of the European Commission, EFSA created and regularly updated a database of host plant species of Xylella spp. The current mandate covers the period 2021–2026. This report is related to the sixth version of the database published in Zenodo in the EFSA Knowledge Junction community, covering literature published from 1 July 2021 up to 31 December 2021, and recent Europhyt outbreak notifications. Informative data have been extracted from 29 selected publications. Eleven new host plants were identified and added to the database: six plant species naturally infected by subsp. multiplex of X. fastidiosa in the EU (France, Italy and Portugal) and five plant species artificially infected by different X. fastidiosa subspecies (multiplex, pauc, fastidiosa and sandyi). No additional data were retrieved for X. taiwanensis. New information on the tolerant/resistant response of plant species to X. fastidiosa infection were added, while no new STs have been identified worldwide compared to the previous update published in January 2022. The overall number of Xylella spp. host plants determined with at least two different detection methods or positive with one method (between: sequencing, pure culture isolation) reaches now 412 plant species, 190 genera and 68 families. Such numbers rise to 664 plant species, 299 genera and 88 families if considered regardless of the detection methods applied.

Keywords: Xylella spp., Xylella fastidiosa, host plants, database, data extraction, subspecies, sequence types

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1. Introduction

1.1. Background and Terms of Reference as provided by the requestor

In the context of Article 31 of Regulation (EC) No 178/2002, EFSA was asked by the European Commission DG SANTE to provide technical assistance in the field of plant health as regards the regulated harmful organism Xylella fastidiosa, as per letter to EFSA’s Director dated 30 June 2016 (Reference ARES(2016)3126989).

EFSA was requested to further specify and update the host plants database of X. fastidiosa available in 2016 (EFSA, 2016) taking into account the different X. fastidiosa subspecies and strains (with particular reference to the European isolates), with the inclusion of information on non-susceptible plants and varieties and negative results of diagnostic tests when available. EFSA was requested to maintain and update this database periodically and to make new releases available on the EFSA website, together with a Scientific Report. The database should focus on plants confirmed to be infected by at least two detection methods in field conditions or via vector transmission under experimental conditions. Such request was for the period 2016–2020.

This mandate was extended by the European Commission DG SANTE for the period 2021–2026, with the aim to continue the update of that database. EFSA is requested to deliver two updates per year of the database.

1.2. Interpretation of the Terms of Reference

EFSA delivered in September 2018 a renovated database of host plants of Xylella spp., taking into account both species of the genus Xylella (X. fastidiosa and X. taiwanensis) (EFSA, 2018), which was last updated January 2022 (EFSA, 2022). Raw data and interactive reports were published in Zenodo1 in the EFSA Knowledge Junction community and in Microstrategy2 platform, together with a Scientific Report.

As per terms of reference (ToR), EFSA was requested to maintain and update the Xylella spp. host plant database for the period 2021–2026, and to publish new releases online together with a report twice per year. This Scientific Report provides a new update on the database of host plants of Xylella spp. published in January 2022 (EFSA, 2022). An extensive literature search was conducted to retrieve recent publications on the topic and new informative data on host plant species of Xylella spp. were collected. Such report provides information on the literature review and a detailed view on the currently known host plants of Xylella spp.

2. Data and methodologies

The methodologies developed for the Xylella spp. host plant database published in 2018 (EFSA, 2018) were applied in this report.

The process was divided in the following steps:

- Extensive literature search to identify relevant references.
- Selection of studies based on title, abstract and full text.
- Data extraction of relevant information.
- Data analysis and reporting.

2.1. Extensive literature search

The review question ‘Which plant species can host Xylella / Xylella associated disease?’ was broken down into key stages using the P/O conceptual model described in the EFSA systematic review guidance (EFSA, 2010):

- Population of interest (P)
  
  The population of interest is that of plant species, worldwide.

- Outcome (condition of interest) (O)
  
  The outcome (condition of interest) is that of Xylella spp. infection.

1 https://doi.org/10.5281/zenodo.1339343
2 https://www.efsa.europa.eu/en/microstrategy/xylella
Two main elements were considered for the extensive literature search: the sources of information (Table 1) to be consulted and the search strategy (Table 2).

2.1.1. Information sources

The search strategy was run in all databases listed in Table 1 via the Web of Science (Clarivate Analytics) and Scopus platforms with no language or document type restriction.

**Table 1: Sources of information**

| Database                                      | Platform         |
|-----------------------------------------------|------------------|
| Scopus                                        | Scopus           |
| BIOSIS Citation Index                         | Web of Science   |
| CABI: CAB Abstracts®                          |                  |
| Chinese Science Citation DatabaseSM           |                  |
| Current Contents Connect                      |                  |
| FSTA® - the food science resource             |                  |
| KCI-Korean Journal Database                   |                  |
| MEDLINE®                                      |                  |
| Russian Science Citation Index                 |                  |
| SciELO Citation Index                         |                  |
| Web of Science Core Collection                 |                  |
| • Science Citation Index Expanded             |                  |
| • Social Sciences Citation Index              |                  |
| • Arts & Humanities Citation Index            |                  |
| • Conference Proceedings Citation Index - Science |            |
| • Conference Proceedings Citation Index - Social Science & Humanities | |
| • Book Citation Index – Science               |                  |
| • Book Citation Index – Social Sciences & Humanities |         |
| • Emerging Sources Citation Index             |                  |
| • Current Chemical Reactions                  |                  |
| • Index Chemicus                              |                  |
| Zoological Record                             |                  |

2.1.2. Search terms

The syntax of the search string, developed for the *Xylella* spp. host plants database published in 2018 (EFSA, 2018), was adapted and run into each platform databases listed in Table 1 on 27 January 2022. As the scope of the search was to retrieve references published after June 2021, the selected time span was from 1 July 2021 up to 31 December 2021. The search strings and the number of retrieved references are shown in Table 2.

**Table 2: Search strings and results**

| Platform | Query                                                                 | Results |
|----------|-----------------------------------------------------------------------|---------|
| Scopus   | (TITLE-ABS-KEY (xylella OR xylelta OR xylela OR (pierce* W/2 disease ) OR (((plum OR plums) AND "leaf scald")) OR ((phony W/2 (peach* OR disease*))) OR ((citrus AND variegat* AND chlorosis)) OR crespera OR "almond leaf scorch" OR "bacterial leaf scorch" OR "coffee leaf scorch" OR "mulberry leaf scorch" OR "oleander leaf scorch" OR "sycamore leaf scorch" OR "periwinkle wilt" OR "Ragweed stunt" OR ((olive W/50 "quick decline syndrome") OR "Xylem inhabiting bacteri" OR "Xylem limited bacteri" OR fxib OR fxjb OR "rickettsialike bacteri" OR "rickettsia like bacteri") AND (ORIG-LOAD-DATE > 20190701 AND ORIG-LOAD-DATE < 20201231)) | 70      |
The collected references were downloaded and imported into an EndNote X9 library (Clarivate Analytics). Duplicates and references already included in the update published in January 2022 (EFSA, 2022) were removed using EndNote X9 and the remaining references were uploaded on DistillerSR online together with the full texts in portable document format (pdf).

Nine Europhyt outbreak notifications (accessed on 7 March 2022), two XF-ACTORS Project deliverables (D2.3 and D7.4) and one official communication notified by the Istituto per la Protezione sostenibile delle Piante - CNR, Bari (Italy) were also included.

2.2. Study selection

The collected references were screened for relevance in two steps:

1) Title and abstract screening.
2) Full-text screening of the references that passed the first step.

Inclusion/exclusion criteria were applied in each step and two reviewers worked in parallel screening the references.

The first step required the reviewers to answer two questions, listed in Table 3, considering only title and abstract of the references. The aim of this step was to select only references presenting original research data on Xylella or Xylella-associated disease.

Table 3: Inclusion/exclusion criteria for title and abstract screening

| Question text | Type of answer | Answer text | Exclusion criteria |
|---------------|----------------|-------------|--------------------|
| Is Xylella/a Xylella-associated disease/a Xylella synonym the topic of the study? | Only one of the possible alternative answers can be selected | Yes | Included |
| Is it a primary research study? | Only one of the possible alternative answers can be selected | Yes | Included |

The references that passed the first step were submitted to the full-text screening. This second step required the reviewers to answer four questions (Table 4): three of them are descriptive (neutral) whereas the fourth has an inclusion/exclusion role.

Table 4: Inclusion/exclusion criteria at full text screening

| Question text | Type of answer | Answer text | Exclusion criteria |
|---------------|----------------|-------------|--------------------|
| Is an English abstract present? | Only one of the possible alternative answers can be selected | Yes | Neutral |

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3 https://www.evidencepartners.com/
4 https://ec.europa.eu/food/plant/plant_health_biosecurity/harmful_organism_outbreaks_en
2.3. Data extraction

Informative data listed in Table 5 were extracted from the selected references. For each reference, the first reviewer performed the data extraction whereas the second reviewer conducted the quality check of the extracted data. Data extraction from each reference can generate one or several records. A record is defined as a unique combination of data related to a detection event, and it corresponds to a single Excel row of the files published in Zenodo (see Section 2.4.1).

| Question text                                                                 | Type of answer | Answer text                        | Exclusion criteria |
|-------------------------------------------------------------------------------|----------------|------------------------------------|--------------------|
| Which is the type of the publication?                                        | Only one of the possible alternative answers can be selected | Peer-reviewed article | Neutral            |
|                                                                                |                | Article                            | Neutral            |
|                                                                                |                | Book                               | Neutral            |
|                                                                                |                | Conference proceedings            | Neutral            |
|                                                                                |                | Abstract                           | Neutral            |
|                                                                                |                | Technical publication/ Report      | Neutral            |
|                                                                                |                | Other                              | Neutral            |
| Is the Xylella host plant the main scope of the study?                        | Only one of the possible alternative answers can be selected | Yes                | Neutral            |
|                                                                                |                | No                                 | Neutral            |
| Is Xylella/a Xylella associated disease/a Xylella synonym studied in association to a host plant? | Only one of the possible alternative answers can be selected | Yes                | Included           |
|                                                                                |                | No                                 | Excluded           |

2.3. Data extraction

Informative data listed in Table 5 were extracted from the selected references. For each reference, the first reviewer performed the data extraction whereas the second reviewer conducted the quality check of the extracted data. Data extraction from each reference can generate one or several records. A record is defined as a unique combination of data related to a detection event, and it corresponds to a single Excel row of the files published in Zenodo (see Section 2.4.1).

Table 5: Data extraction structure

| Extracted data | Description |
|----------------|-------------|
| **General information** | In this section, the general information about the study is reported |
| RecordID       | Unique number allocated to each row |
| RefID          | Unique number allocated to each reference within the DistillerSR software |
| Reference      | Full reference |
| Publication year | Year of the publication |
| Starting year  | Starting year of the study, as reported in the publication |
| Ending year    | Ending year of the study, as reported in the publication |
| **Botanical identification** | The botanical identification of the plant, both as reported in the publication and according to the updated taxonomy of the EPPO Global Database\(^5\), is reported in this section |
| Plant EPPO code | EPPO code of the plant species, from the EPPO global database. For plant species not present in the EPPO global database, a new code was created in the EFSA catalogue. |
| Plant family   | Plant family, from the EPPO global database\(^5\) |
| Plant genus    | Plant genus, from the EPPO global database\(^5\) |
| Plant species  | Plant species, from the EPPO global database\(^5\) |
| Reported plant species | Name of the plant species as reported in the publication |
| Common name    | Common name of the plant species, as reported in the publication |
| Cultivar       | Cultivar or plant variety, as reported in the publication |
| **Infection information** | Detailed information about the infection and location of the plant is reported in this section |
| Infection method (Level 1) | The infection of the plant can be natural, artificial or not specified |

\(^5\) https://gd.eppo.int/
| Extracted data | Description |
|---------------|-------------|
| Infection method (Level 2) | Subcategories of natural infection: during survey activity, during research activity. ‘Research activity’ is used when plants are planted under natural inoculum pressure and infection development was monitored without interfering. Subcategories of artificial infection: mechanical inoculation (detailed at level 3a), vector transmission (detailed at level 3b) |
| Mechanical inoculation (Level 3a) | Subcategories of mechanical inoculation: budding, grafting, needle, root uptake, stem absorption, syringe |
| Infection vector species (Level 3b) | Insect species used in the artificial vector transmission |
| Location type | The place where the plant was placed: natural habitat, greenhouse, screenhouse, interception, not specified |

**Geographic information**

*In this section, the geographical location of the plant is reported, as detailed as possible. In case of intercepted plant, the reported location is the geographical origin of the plant and not the country and location where it was intercepted.*

| Country code | From the EFSA catalogue, based on NUTS (Eurostat) and GAUL (FAO) territorial unit nomenclature |
|--------------|------------------------------------------------------------------------------------------------|
| Country      | From the EFSA catalogue, based on NUTS (Eurostat) and GAUL (FAO) territorial unit nomenclature |
| Location     | Location description (state/region/province/municipality) from the EFSA catalogue, based on NUTS (Eurostat) and GAUL (FAO) territorial unit nomenclature |
| Additional Location | Additional information on the location, as reported in the publication |
| Latitude     | Latitude, as reported in the publication |
| Longitude    | Longitude, as reported in the publication |

**Pest description**

*Information about the pest is reported in this section, together with genetic data*  

| Pest EPPO code | EPPO code of the pest, from the EPPO global database⁵ |
|---------------|-----------------------------------------------------|
| Pest species  | Name of *Xylella* spp., from the EPPO global database⁵ |
| Pest subspecies | *Xylella fastidiosa* subspecies, from the EPPO global database⁵. If the subspecies is inferred from another publication, a note is added to the genotyping comment |
| Reported pest | Name of *Xylella* spp. as reported in the publication. Names used before the genus *Xylella* was established (up to 1987): *Alfalfa dwarf virus*, *Morus suffodiens virus*, *Phony peach bacterium*, *Pierce's disease bacterium*, *Pierce's disease virus*, *Rickettsia-like bacteria*, *Rod-shaped bacteria*, *Xylem-inhabiting bacteria*. Names used from 1987 (when the genus *Xylella* was established): *Xylella fastidiosa*, *Xylella taiwanensis* |
| Disease       | Name of the disease caused by *Xylella* spp., as reported in the publication: *Alfalfa dwarf*, *Almond leaf scorch*, *Bacterial leaf scorch*, *Blueberry bacterial leaf scorch*, *Citrus variegated chlorosis*, *Coffee leaf scorch*, *Coffee stem atrophy*, *Crespera*, *Elm leaf scorch*, *Leaf scorch disease*, *Mulberry leaf scorch*, *Oleander leaf scorch*, *Olive quick decline syndrome*, *Pear leaf scorch*, *Pecan bacterial leaf scorch*, *Periwinkle wilt*, *Phony peach disease*, *Pierce disease*, *Plum leaf scald*, *Potato purple top disease*, *Ragweed stunt*, *Sweetgum dieback*, *Sycamore leaf scorch* |
| Strain        | Name of the strain of *Xylella* spp., as reported in the publication |
| MLST (Multilocus Sequence Type) | Sequence Type (ST) of *Xylella fastidiosa*, as reported in the publication. If the ST is inferred from another publication, a note is added in the genotyping comment |
| Genotyping comment | Comment or additional information regarding the pest |

**Methods of identification**

*In this section, the identification methods applied to detect *Xylella* spp. infection are listed. Eight detection methods were considered and for each of them the outcome of the analysis (positive or negative), together with the number of infected plants and the total number of analysed plants, were reported. Moreover, additional information could be added in the comment column beside each detection method.*

| Symptoms                       | Observation of symptoms in the plant, as reported in the publication |
|--------------------------------|---------------------------------------------------------------------|
| Symptoms expression in test plants | Observation of symptom development in test plants after an attempt to transmit the pathogen through vectors |
2.4. Data warehouse

A harmonised data model has been established to collect data on *Xylella* spp. host plants. The aim was to establish a harmonised data flow for the collection and the collation of an extensive literature review generated data in the plant health domain. Data are stored in EFSA Scientific Data Warehouse (S-DWH), after that an ETL (Extract, Transform, Load) procedure is applied in order to harmonise and calculated the statistics.

2.4.1. Data management

The collected data have been submitted to the EFSA Data Collection Framework (DCF). DCF is the upfront system in the EFSA pipeline of data collection tools and allows a first step of harmonisation against the EFSA controlled reference terminology (aka EFSA catalogues). Data have been then included in the S-DWH by means of a standardised Extract Transform Load (ETL) procedure and they have been further analysed and managed to generate needed statistics.

Data are available as interactive reports on the Microstrategy platform at the following link: https://www.efsa.europa.eu/en/microstrategy/xylella

Raw data and related metadata are published in Zenodo in the EFSA Knowledge Junction community, this report refers to Version 6 (https://doi.org/10.5281/zenodo.1339343).

2.4.2. Data reporting

Data reporting was designed to distinguish the *Xylella* spp. host plant species, based on the number and type of detection methods applied for each finding. Different combinations of detection methods were considered:

**A.** Plant species positive with at least two detection methods (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

**B.** The same as point A, but also including microscopy: plant species positive with at least two detection methods (among: microscopy, symptoms observation on the test plant in experimental

| Extracted data            | Description                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Culture                  | Pure culture isolation (i.e. isolation of cultivable bacteria from tissue samples on solid culture media)                                   |
| Microscopy                | Observation of *Xylella* spp. bacteria through microscopic analysis techniques                                                              |
| ELISA                    | Enzyme-linked immunosorbent assay                                                                                                          |
| Other immunological      | Immunological techniques other than ELISA                                                                                                   |
| techniques               |                                                                                                                                 |
| PCR-based methods        | Polymerase chain reaction-based methods (PCR, nested PCR, qPCR, etc.)                                                                       |
| Sequencing               | Sequence analysis                                                                                                                            |

| Host status              | Information about the tolerance and resistance response of the plant                                                                      |
| Tolerance/Resistance     | Tolerant/resistant status of the plant, as reported in the publication                                                                  |
| category                 | Categories describing the response of the tolerant/resistant plant: lack of infection or negative reading, lack of systemic movement, lack or reduction of symptoms – lower bacterial population, lack or reduction of symptoms – lower bacterial population – lower disease incidence, lack or reduction of symptoms – lower disease incidence, lower bacterial population, lower bacterial population – lower disease incidence, lower disease incidence, infection not persistent, reported as tolerant/resistant (no details) |
| Tolerance/Resistance     | Comment on the tolerant/resistant response of the plant, as reported in the publication                                                   |
| comment                  |                                                                                                                                            |

| Additional information    |                                                                                                                                            |
| Comment                  | Additional relevant information or comment on the study                                                                                   |
| Confirmed record         | ‘Yes’ for confirmed records, ‘No’ for unconfirmed/dubious records. Unconfirmed records were included in the data extraction but excluded from the data analysis |
vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

C. Plant species positive with at least one detection method (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

D. Plant species positive with at least one detection method including microscopy (microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

E. All positives plant species reported, regardless of the detection methods (positive records but without the detection method specified, symptom observations, microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing, pure culture isolation).

3. Results

3.1. Results of the literature review

The extensive literature search was conducted on 27 January 2022 on Web of Science and Scopus platforms and 163 references were collected. Duplicates and references already included in EFSA (2022) were removed and 100 references were uploaded in DistillerSR and screened for relevance. Results of the screening process are shown in Figure 1.

In the first step, i.e. title and abstract screening, 70 references were excluded either because they do not focus on Xylella or Xylella-associated diseases and/or they are not primary research studies. The selected 30 references were subjected to the second step of the screening process, i.e. the full-text screening. Seventeen references, in which Xylella spp. is studied in association to a host plant, were selected. Nine Europhyt outbreak notifications containing informative data were also included in the data extraction. Data were also collected from XF-ACTORS Project deliverables D2.3 'Host range of relevant Xylella fastidiosa strains and isolates harbouring novel STs', D7.4 'Identification of plant species that can serve as alternative crops in the EU contaminated areas' and from official communication notified by the Istituto per la Protezione sostenibile delle Piante - CNR, Bari (Italy). Totally, 29 references (listed in Appendix E) were included in this update of the database and from which informative data listed in Table 5 were extracted.

6 Deliverables available at https://cordis.europa.eu/project/id/727987/results
3.2. Update of records already included in the database

Scientific names of plant species, genera and families are reported, as far as possible, accordingly to the taxonomy of the EPPO Global Database (EPPO, 2022) that is constantly being updated. Therefore, changes of scientific names of plant species, genera and families in the Xylella spp. host plant database are related to the update of the taxonomy in the EPPO Global Database. In line with this, the plant species Osteospermum ecklonis (EPPO code ‘OSPEK’) and O. fruticosum (EPPO code ‘OSPFR’) have been renamed Dimorphotheca ecklonis and D. fruticosa, respectively.

Records referring to Europhyt outbreak notifications, that may contain incomplete data, are updated whenever additional information (e.g. further identification of the plant species, X. fastidiosa subspecies, ST, etc.) become available. This is the case of the plant species Nerium oleander,
previously reported infected in Mallorca (ES) by undetermined *X. fastidiosa* subspecies, afterwards identified ad subsp. *multiplex* ST81 (recordID 9724).

Few records with no indication of the plant species (recordID 2891, 6643, 7113, 7114, 8171 and 11148) were deleted from the database. Records (recordID from 10914 to 10925) referring to plant species reported in Table 3 of the publication Gorris et al. (2021) (refID 3835) were also deleted as erroneously interpreted infected by *X. fastidiosa* in the previous published version of this database (EFSA, 2022).

### 3.3. Host plant species of *Xylella* spp.

The updated numbers of host plant species, genera and families (according to the different categories reported in Section 2.4.2) are reported in Figure 2 and Table 6. The number of plant species raised to 412 according to category A [i.e. plant species positive with at least two detection methods (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation)] to 664 plant species of category E (i.e. all positives plant species reported, regardless of the detection methods).

**Figure 2:** Number of host plant species according to the different categories (as described in Section 2.4.2). Plant species in category A are included in category B; plant species in category B are included in category C; plant species in category C are included in category D; plant species in category D are included in category E.

**Table 6:** Number of host plant species, genera and families of *Xylella* spp. according to categories A, B, C, D, E (based on the detection methods applied – see Section 2.4.2)

|                | A  | B  | C  | D  | E  |
|----------------|----|----|----|----|----|
| **Number of host plant species** | 412 | 417 | 648 | 657 | 664 |
| **Number of host plant genera**   | 190 | 191 | 298 | 298 | 299 |
| **Number of host plant families**  | 68  | 68  | 88  | 88  | 88  |

Compared to the previous update of the database published in January 2022 (EFSA, 2022), 11 plant species and 7 genera were identified as new hosts of *X. fastidiosa*. Those plant species and genera were not previously reported in the database. Details of those new hosts of *X. fastidiosa* are summarised in Table 7.

All the six new plant species found to be naturally infected were identified in the EU (France, Italy and Portugal) and were infected by subspecies *multiplex*. Artificial infection has been successful in five new species. *Jasminum azoricum* was artificially infected, successfully, by the subspecies *pauca*, either by needle inoculation or transmission via the vector *Philaenus spumarius*.

Within the XF-ACTORS project, the susceptibility of *Pyrus communis* (to subspecies *fastidiosa*, *multiplex*, *pauca* and *sandyi*), *Malus domestica* (to subspecies *multiplex*, *pauca* and *sandyi*), *Quercus petraea* (to subspecies *fastidiosa*, *multiplex* and *pauca*) and *Salix alba* (to subspecies *fastidiosa*, *multiplex* and *pauca*) has been proved in artificial infections by needle inoculation. Although in these experiments conducted under greenhouse conditions, the pathogen was detected at some distance from the inoculation point (e.g. 40 cm, as reported in the case of *Pyrus communis* and *Malus*...
domestica), further studies will need to prove whether these new hosts are likely to sustain infection under natural conditions.

Table 7: New host plants of X. fastidiosa. For each host plant the infection method, the country, the X. fastidiosa subspecies and the category (see Section 2.4.2) are reported. New plant species, new genera and new families are highlighted in bold.

| Plant family | Plant genus | Plant species | Infection method | X. fastidiosa subspecies | Country | Category |
|--------------|-------------|---------------|------------------|-------------------------|---------|----------|
| Berberidaceae| Berberis    | Berberis thunbergii | Natural          | multiplex                | Portugal| A        |
| Asteraceae   | Calocephalus| Calocephalus brownii | Natural          | multiplex                | France  | A        |
| Ranunculaceae| Clematis    | Clematis vitalba | Natural          | multiplex                | Italy   | A        |
| Asteraceae   | Gazania     | Gazania rigens | Natural          | multiplex                | Portugal| A        |
| Asteraceae   | Jacobaea    | Jacobaea maritima | Natural          | multiplex                | France  | A        |
| Caprifoliaceae| Scabiosa   | Scabiosa sp.   | Natural          | multiplex                | Italy   | A        |

| Plant family | Plant genus | Plant species | Infection method | X. fastidiosa subspecies | Country | Category |
|--------------|-------------|---------------|------------------|-------------------------|---------|----------|
| Oleaceae     | Jasminum    | Jasminum azoricum | Artificial      | pauca                   | –       | A        |
| Rosaceae     | Malus       | Malus domestica | Artificial       | multiplex               | –       | C        |
| Rosaceae     | Malus       | Malus domestica | Artificial       | pauca                   | –       | C        |
| Rosaceae     | Malus       | Malus domestica | Artificial       | sandyi                  | –       | C        |
| Rosaceae     | Pyrus       | Pyrus communis | Artificial       | fastidiosa              | –       | C        |
| Rosaceae     | Pyrus       | Pyrus communis | Artificial       | multiplex               | –       | C        |
| Rosaceae     | Pyrus       | Pyrus communis | Artificial       | pauca                   | –       | C        |
| Rosaceae     | Pyrus       | Pyrus communis | Artificial       | sandyi                  | –       | C        |
| Fagaceae     | Quercus     | Quercus petraea | Artificial       | fastidiosa              | –       | C        |
| Fagaceae     | Quercus     | Quercus petraea | Artificial       | multiplex               | –       | C        |
| Salicaceae   | Salix       | Salix alba    | Artificial       | fastidiosa              | –       | C        |
| Salicaceae   | Salix       | Salix alba    | Artificial       | multiplex               | –       | C        |
| Salicaceae   | Salix       | Salix alba    | Artificial       | pauca                   | –       | C        |

The overall number of host plant species infected naturally, artificially and in unspecified conditions by the different X. fastidiosa subspecies and according to the different categories are reported in Tables 8, 9 and 10. The plant species behind the numbers shown in those tables are listed in Appendices A, B and C. In those appendices, the full lists of plant species infected by the different X. fastidiosa subspecies naturally, artificially and in not specified conditions according to the five categories are shown.

The highest number of plant species naturally infected is recorded for X. fastidiosa subsp. *multiplex* (203 according to category A, up to 210 for category E), followed by subsp. *pauca* and subsp. *fastidiosa*. In artificial infection, 40 plant species (category A, and 79 for category E) were successfully infected by X. fastidiosa subsp. *fastidiosa*. Twenty plant species were artificially infected by subsp. *pauca* and 19 by subsp. *multiplex* (category A), up to 33 and 32 for category E (for *pauca* and *multiplex*, respectively).

No new host plants were reported for the pathogen species *Xylella taiwanensis* that so far was recorded only in *Pyrus pyrifolia* plants.

Table 8: Number of host plant species, naturally infected, susceptible to the different X. fastidiosa subspecies according to categories A, B, C, D, E (as described in Section 2.4.2).

| Category | fastidiosa | fastidiosa_sandyi | morus | multiplex | pauca | sandyi | tashke | Unknown |
|----------|------------|-------------------|-------|-----------|-------|--------|--------|---------|
| A        | 50         | 2                 | 4     | 203       | 53    | 7      | 1      | 168     |
| B        | 50         | 2                 | 4     | 203       | 53    | 7      | 1      | 173     |
| C        | 53         | 2                 | 4     | 210       | 57    | 8      | 1      | 368     |
| D        | 53         | 2                 | 4     | 210       | 57    | 8      | 1      | 374     |
| E        | 53         | 2                 | 4     | 210       | 57    | 8      | 1      | 385     |
### 3.4. *X. fastidiosa* Sequence Types and host plants association

The full list of plant species infected by the different *X. fastidiosa* sequence types (ST) in natural, artificial and not specified conditions is reported in Appendix D. For each plant species, the number of records reporting infection by that specific ST is counted. For natural infection, it is also reported the country where the plant species have been identified, whereas for artificial and not specified infection only, the total number of records is present in the appendix.

Totally, 2,179 records reporting information on 249 plant species infected by 87 different STs have been reported in the database. Most of the records (1,585) refer to natural infections that were reported in North, Central and South America (United States of America, Mexico, Honduras, Costa Rica, Ecuador, Brazil and Argentina), Europe (Portugal, Spain, France and Italy). The highest number of records for artificial infections belongs to STs of subsp. *pauca* (246 records). While ST1 (subsp. *fastidiosa*) still remains the most used ST in artificial infections, now with 171 records, ST53 (subsp. *pauca*) is the most reported genotype in natural infections (456).

Compared to the previous version of the database (EFSA, 2022), no new STs have been identified worldwide. ST87 belonging to subsp. *multiplex* and identified in 2018 in Tuscany (Italy) hence remains the last sequence type identified so far, and therefore included in our database.

### 3.5. Tolerant and resistant response of plant species

Information on tolerant and resistant response of plant species to *X. fastidiosa* infection have also been reported in the database. The list of plant genera and species for which tolerant and resistant response have been identified is reported in Table 11. Seventy-seven additional records that include this information have been inserted in the database compared to the previous version (EFSA, 2022). Information on tolerant/resistant status is now reported for 72 plant species with a total number of 708 records.

The most studied genera are *Vitis, Citrus* and *Prunus* (417, 175 and 58 records, respectively), confirming the important economic value of these crop plant species. Almost all of the new records added to this update are related to several accessions of the plant species *Vitis arizonica, V. berlandieri, V. canadiensis, V. girldiana, V. monticola* and *V. riparia* (72 records), while new information on tolerant and resistant responses have continued to be made available with reference to Leccino, Nocellara messinese, Frantoio and FS-17® cultivars of *Olea europaea* (five records), which now gathers 30 records.

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**Table 9:** Number of host plant species, artificially infected, susceptible to the different *X. fastidiosa* subspecies according to categories A, B, C, D, E (as described in Section 2.4.2)

| Category | *fastidiosa* | *morus* | *multiplex* | *pauca* | *sandyi* | *tashke* | Unknown |
|----------|--------------|---------|-------------|---------|----------|---------|---------|
| A        | 40           | 2       | 19          | 20      | 5        | 0       | 89      |
| B        | 41           | 2       | 19          | 21      | 5        | 0       | 94      |
| C        | 78           | 2       | 31          | 33      | 11       | 1       | 202     |
| D        | 78           | 2       | 31          | 33      | 11       | 1       | 208     |
| E        | 79           | 2       | 32          | 33      | 11       | 1       | 216     |

**Table 10:** Number of host plant species, infected in unspecifed conditions, susceptible to the different *X. fastidiosa* subspecies according to categories A, B, C, D, E (as described in Section 2.4.2)

| Category | *fastidiosa* | *multiplex* | *pauca* | *sandyi* | Unknown |
|----------|--------------|-------------|---------|----------|---------|
| A        | 7            | 13          | 8       | 1        | 16      |
| B        | 7            | 13          | 8       | 1        | 18      |
| C        | 7            | 16          | 8       | 2        | 27      |
| D        | 7            | 16          | 8       | 2        | 29      |
| E        | 7            | 16          | 8       | 2        | 31      |

7 'Record' as defined in Section 2.3.
### Table 11: Number of records reporting tolerant/resistant response for plant genus and species

| Plant genus and species | Number of records |
|-------------------------|-------------------|
| **Arabidopsis**         |                   |
| Arabidopsis thaliana    | 4                 |
| **Citrus**              |                   |
| Citrus celebica         | 1                 |
| Citrus clementina       | 4                 |
| Citrus jambhiri         | 2                 |
| Citrus junos            | 1                 |
| Citrus latifolia        | 1                 |
| Citrus limettioides     | 1                 |
| Citrus limon            | 14                |
| Citrus medica           | 1                 |
| Citrus natsudaidai      | 1                 |
| Citrus paradisi         | 5                 |
| Citrus reticulata       | 9                 |
| Citrus reticulata × C. sinensis × C. paradisi | 1 |
| Citrus sinensis         | 8                 |
| Citrus sp.              | 70                |
| Citrus tangerine        | 32                |
| Citrus × nobilis        | 11                |
| Citrus × tangelo        | 13                |
| **Coffea**              |                   |
| Coffea arabica          | 4                 |
| Coffea sp.              | 1                 |
| **Fortunella**          |                   |
| Fortunella margarita    | 1                 |
| **Medicago**            |                   |
| Medicago sativa         | 2                 |
| **Olea**                |                   |
| Olea europaea           | 30                |
| **Platanus**            |                   |
| Platanus sp.            | 2                 |
| **Poncirus**            |                   |
| Poncirus trifoliata     | 3                 |
| **Prunus**              |                   |
| Prunus angustifolia     | 1                 |
| Prunus armeniaca        | 3                 |
| Prunus avium            | 5                 |
| Prunus cerasus          | 2                 |
| Prunus domestica        | 3                 |
| Prunus dulcis           | 8                 |
| Prunus persica          | 7                 |
| Prunus salicina         | 14                |
| Prunus sp.              | 13                |
| Prunus × amygdalo-persica | 2             |
| **Quercus**             |                   |
| Quercus ilex            | 2                 |
To the aim of this study, different tolerant/resistant response to *X. fastidiosa* infection has been grouped into 11 categories, as reported in Table 12. Those categories include the plant response/s for which the authors of the publication considered that plant as tolerant/resistant to *X. fastidiosa* infection. One hundred and twenty-nine publications, which match 708 records, for the most part (442) reporting artificial infections, return information on tolerance and resistance outcome to *X. fastidiosa* infection. In 43 publications, the authors consider the plant tolerant or resistant, but without adding further details, whereas in 23 publications (and 242 records), the plant is designated tolerant or resistant based on a lower bacterial population it harbours. In 235 cases, this finding comes from artificial infections. The lack of infection and the lack or reduction of symptoms (78 records in each case) are the two most reported tolerant/resistant outcomes in natural infections.

| Plant genus and species | Number of records |
|------------------------|-------------------|
| **Vaccinium**          | 9                 |
| *Vaccinium corymbosum* | 5                 |
| *Vaccinium sp.*        | 4                 |
| **Vitis**              | 417               |
| *Vitis aestivalis*     | 4                 |
| *Vitis arizonica*      | 104               |
| *Vitis arizonica hybrid* | 6              |
| *Vitis arizonica × V. rupestris* | 6          |
| *Vitis arizonica × V. vinifera* | 1          |
| *Vitis arizonica/candicans* | 3           |
| *Vitis arizonica/candicans × V. rupestris* | 2         |
| *Vitis arizonica/girdiana* | 1           |
| *Vitis berlandieri*    | 9                 |
| *Vitis berlandieri × riparia hybrids* | 6        |
| *Vitis berlandieri × V. rupestris* | 4         |
| *Vitis candidans*      | 23                |
| *Vitis champinii × (V. solonis × V. othello)* | 1       |
| *Vitis cinerea*        | 7                 |
| *Vitis cinerea × V. berlandieri* | 2        |
| *Vitis girdiana*       | 20                |
| *Vitis monticola*      | 4                 |
| *Vitis munsoniana*     | 3                 |
| *Vitis popenoei*       | 1                 |
| *Vitis riparia*        | 19                |
| *Vitis rotundifolia*   | 58                |
| *Vitis rotundifolia × V. rupestris* | 1        |
| *Vitis simpsonii*      | 1                 |
| *Vitis sp.*            | 76                |
| *Vitis tiliaefolia*    | 1                 |
| *Vitis treleasei*      | 6                 |
| *Vitis vinifera*       | 25                |
| *Vitis vinifera hybrid* | 6              |
| *Vitis aestivalis var. smalliana* | 4        |
| *Vitis aestivalis var. smalliana × V. simpsonii* | 4        |
| *Vitis aestivalis var. smalliana × V. vinifera* | 1        |
| *Vitis nesbittiana*    | 2                 |
| *Vitis rufotomentosa*  | 1                 |
| *Vitis shuttleworthii* | 5                 |

**TOTAL** 708
4. Conclusions

Following a request from the European Commission, EFSA was asked to create, maintain and regularly update a database of host plant species of *Xylella* spp. This Scientific Report summarises the most interesting information reported in the new version of the database (Version 6).

An extensive literature search was performed including all scientific papers published up to 31 December 2021, as well as additional Europhyt outbreak notifications (last accessed on 7 March 2022), two deliverables released by the Horizon 2020 XF-ACTORS Project and an official notification from the Institute for Sustainable Plant Protection – CNR, Bari (Italy).

By these searches, 29 publications were selected and informative data were extracted. Eleven host plant species and seven genera were identified as new hosts of *X. fastidiosa*. Those plant species and genera were not previously reported as hosts of *X. fastidiosa*. Six plant species were identified in the EU (France, Italy and Portugal) as new natural hosts of subspecies *multiplex*. The *X. fastidiosa* subspecies *pauca* was first described as being able to infect, in artificial trials, *Jasminum azoricum*, a species hitherto never included among susceptible hosts. Two plant species (*Salix alba* and *Quercus petraea*) were artificially infected by subspecies *fastidiosa, multiplex* and *pauca*, whereas *Pyrus communis* also proved susceptible by artificial infection to a fourth subspecies (i.e. *sandyi*). *Malus domestica* was artificially infected by subspecies *multiplex, pauca* and *sandyi*.

It is worth noting that, in the case of *Pyrus communis, Malus domestica, Salix alba* and *Quercus petraea*, the identification of artificial infections, with different *X. fastidiosa* subspecies, is the result of a series of greenhouse trials under controlled and forced conditions, which were conducted as part of the XF-ACTORS project. The actual infectious potential of the pathogen in these hosts will need to be verified with additional trials, or once identified under natural conditions.

Compared to the previous version of the database (EFSA, 2022), no new STs have been identified worldwide and no new data were retrieved for *X. taiwanensis* that, up to now, still remains reported only in *Pyrus pyrifolia* plants.

The overall number of *Xylella* spp. host plants reaches now 412 plant species, 190 genera and 68 families for category A [i.e. plant species positive with at least two detection methods (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation)], till 664 plant species, 299 genera and 88 families for category E (i.e. all positives plant species reported, regardless of the detection methods).

Information on tolerant/resistant status were reported for 72 plant species in 124 publications, with a total number of 708 records. The most studied and reported plant taxa are still the economically

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**Table 12:** Number of records and publications for tolerance/resistance category

| Tolerance/resistance category | Number of records | Number of publications |
|------------------------------|------------------|-----------------------|
| Artificial infection         | Natural infection| Infection not specified|
| Lack of infection or negative reading | 42               | 78                    | 14        |
| Lack of systemic movement    | 50               |                       | 7         |
| Lack or reduction of symptoms| 74               | 78                    | 12        |
| Lack or reduction of symptoms - Lower bacterial population | 20               | 14                    | 17        |
| Lack or reduction of symptoms - Lower bacterial population - Lower disease incidence | 2               |                       | 2         |
| Lack or reduction of symptoms - Lower disease incidence | 2               |                       | 1         |
| Lower bacterial population   | 235              | 7                     | 23        |
| Lower bacterial population - Lower disease incidence | 3               |                       | 3         |
| Lower disease incidence      | 6                |                       | 4         |
| Not persistent infection     | 5                | 3                     | 3         |
| Reported as tolerant/resistant_no details | 16              | 24                    | 49        |
| TOTAL                        | 442              | 217                   | 49        |
|                              |                  |                       | 129       |
important genera *Citrus*, *Prunus* and *Vitis*. The latter also collects almost all of the newly acquired information on resistance or tolerance responses to infection (72 records out of 77 new additions).

A further update of the EFSA database on *Xylella* spp. host plants is planned for the end of 2022 with the aim to provide useful information and scientific support to risk assessors, risk managers and researchers dealing with *Xylella* spp.

Data are available as interactive reports on the Microstrategy platform at the following link: https://www.efsa.europa.eu/en/microstrategy/xylella

Raw data and related metadata are published in Zenodo in the EFSA Knowledge Junction community, this report refers to Version 6 (https://doi.org/10.5281/zenodo.1339343).

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Abbreviations

- **DCF**: Data Collection Framework
- **EFSA PLH Panel**: EFSA Panel on Plant Health
- **ELISA**: enzyme-linked immunosorbent assay
- **EPPO**: European and Mediterranean Plant Protection Organization
- **ETL**: Extract Transform Load
- **PCR**: polymerase chain reaction
- **S-DWH**: EFSA Scientific Data Warehouse
- **ST**: sequence type
Appendix A – Host plant species naturally infected

List of host plant species, naturally infected, of *X. fastidiosa* subsp. unknown (i.e. not reported in the publication), subsp. *fastidiosa*, subsp. *fastidiosa/sandyi*, subsp. *morus*, subsp. *multiplex*, subsp. *pauca*, subsp. *sandyi*, subsp. *tashke* and *X. taiwanensis* according to categories A, B, C, D, E (as reported in Section 2.4.2):

A. Plant species positive with at least two detection methods (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

B. The same as point A, but also including microscopy: plant species positive with at least two detection methods (among microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

C. Plant species positive with at least one detection method (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

D. Plant species positive with at least one detection method including microscopy (microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

E. All positives plant species reported, regardless of the detection methods (positive records but without the detection method specified, symptom observations, microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing, pure culture isolation).

| N  | Plant species                      | Pest       | Category |
|----|-----------------------------------|------------|----------|
| 1  | *Acacia saligna*                  | *Xf* subsp. unknown | A        |
| 2  | *Acer rubrum*                     | *Xf* subsp. unknown  | A        |
| 3  | *Albizia julibrissin*             | *Xf* subsp. unknown  | A        |
| 4  | *Amaranthus retroflexus*          | *Xf* subsp. unknown  | A        |
| 5  | *Ambrosia psilostachya*           | *Xf* subsp. unknown  | A        |
| 6  | *Ambrosia trifida*                | *Xf* subsp. unknown  | A        |
| 7  | *Ampelopsis arborea*              | *Xf* subsp. unknown  | A        |
| 8  | *Ampelopsis brevipedunculata*     | *Xf* subsp. unknown  | A        |
| 9  | *Ampelopsis brevipedunculata* var. hancei | *Xf* subsp. unknown  | A        |
| 10 | *Asparagus acutifolius*           | *Xf* subsp. unknown  | A        |
| 11 | *Baccharis halimifolia*           | *Xf* subsp. unknown  | A        |
| 12 | *Baccharis* sp.                   | *Xf* subsp. unknown  | A        |
| 13 | *Brassica* sp.                    | *Xf* subsp. unknown  | A        |
| 14 | *Calliandra americana*            | *Xf* subsp. unknown  | A        |
| 15 | *Carya aquatica*                  | *Xf* subsp. unknown  | A        |
| 16 | *Carya cathayensis*               | *Xf* subsp. unknown  | A        |
| 17 | *Carya cordiformis*               | *Xf* subsp. unknown  | A        |
| 18 | *Carya floridana*                 | *Xf* subsp. unknown  | A        |
| 19 | *Carya glabra*                    | *Xf* subsp. unknown  | A        |
| 20 | *Carya illinoinsensis*            | *Xf* subsp. unknown  | A        |
| 21 | *Carya laciniosa*                 | *Xf* subsp. unknown  | A        |
| 22 | *Carya pallida*                   | *Xf* subsp. unknown  | A        |
| 23 | *Carya palmeri*                   | *Xf* subsp. unknown  | A        |
| 24 | *Carya tomentosa*                 | *Xf* subsp. unknown  | A        |
| 25 | *Catharanthus roseus*             | *Xf* subsp. unknown  | A        |
| 26 | *Cercis occidentalis*             | *Xf* subsp. unknown  | A        |
| 27 | *Chamaecrista fasciculata*        | *Xf* subsp. unknown  | A        |
## Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021

| N  | Plant species          | Pest          | Category |
|----|------------------------|---------------|----------|
| 28 | Chionanthus retusus    | *Xf* subsp. unknown | A        |
| 29 | Chitalpa tashkentensis | *Xf* subsp. unknown | A        |
| 30 | Cistus creticus        | *Xf* subsp. unknown | A        |
| 31 | Cistus monspeliensis   | *Xf* subsp. unknown | A        |
| 32 | Citrus aurantium       | *Xf* subsp. unknown | A        |
| 33 | Citrus celebica        | *Xf* subsp. unknown | A        |
| 34 | Citrus jambhiri        | *Xf* subsp. unknown | A        |
| 35 | Citrus limon           | *Xf* subsp. unknown | A        |
| 36 | Citrus medica          | *Xf* subsp. unknown | A        |
| 37 | Citrus natsudaidai     | *Xf* subsp. unknown | A        |
| 38 | Citrus paradisi        | *Xf* subsp. unknown | A        |
| 39 | Citrus reticulata      | *Xf* subsp. unknown | A        |
| 40 | Citrus sinensis        | *Xf* subsp. unknown | A        |
| 41 | Citrus sp.             | *Xf* subsp. unknown | A        |
| 42 | Citrus tangerina       | *Xf* subsp. unknown | A        |
| 43 | Citrus × nobilis       | *Xf* subsp. unknown | A        |
| 44 | Citrus × tangelo       | *Xf* subsp. unknown | A        |
| 45 | Coelorachis cylindrica | *Xf* subsp. unknown | A        |
| 46 | Coffea arabica         | *Xf* subsp. unknown | A        |
| 47 | Coffea sp.             | *Xf* subsp. unknown | A        |
| 48 | Conium maculatum       | *Xf* subsp. unknown | A        |
| 49 | Digitaria sp.          | *Xf* subsp. unknown | A        |
| 50 | Diospyros kaki         | *Xf* subsp. unknown | A        |
| 51 | Diplocyclos palmatus   | *Xf* subsp. unknown | A        |
| 52 | Dodonaeas viscosa      | *Xf* subsp. unknown | A        |
| 53 | Euphorbia terracina    | *Xf* subsp. unknown | A        |
| 54 | Fagus crenata          | *Xf* subsp. unknown | A        |
| 55 | Fatsia japonica        | *Xf* subsp. unknown | A        |
| 56 | Ficus carica           | *Xf* subsp. unknown | A        |
| 57 | Fraxinus angustifolia  | *Xf* subsp. unknown | A        |
| 58 | Fraxinus pennsylvanica | *Xf* subsp. unknown | A        |
| 59 | Genista hirsuta        | *Xf* subsp. unknown | A        |
| 60 | Genista × spachiana    | *Xf* subsp. unknown | A        |
| 61 | Ginkgo biloba          | *Xf* subsp. unknown | A        |
| 62 | Gleditsia triacanthos var. inermis | *Xf* subsp. unknown | A |
| 63 | Grevillea juniperina   | *Xf* subsp. unknown | A        |
| 64 | Helianthus annuus      | *Xf* subsp. unknown | A        |
| 65 | Helichrysum stoechas   | *Xf* subsp. unknown | A        |
| 66 | Hemerocallis sp.       | *Xf* subsp. unknown | A        |
| 67 | Hibiscus schizopetalus | *Xf* subsp. unknown | A        |
| 68 | Humulus scandens       | *Xf* subsp. unknown | A        |
| 69 | Ilex vomitoria         | *Xf* subsp. unknown | A        |
| 70 | Iva annua              | *Xf* subsp. unknown | A        |
| 71 | Jacaranda mimosifolia  | *Xf* subsp. unknown | A        |
| 72 | Juglans sp.            | *Xf* subsp. unknown | A        |
| 73 | Juniperus ashei        | *Xf* subsp. unknown | A        |
| 74 | Lagerstroemia indica   | *Xf* subsp. unknown | A        |
| 75 | Lagerstroemia sp.      | *Xf* subsp. unknown | A        |
| 76 | Laurus nobilis         | *Xf* subsp. unknown | A        |
| 77 | Lavandula angustifolia | *Xf* subsp. unknown | A        |
| N  | Plant species            | Pest | Category |
|----|--------------------------|------|----------|
| 78 | Lavandula dentata        | *Xf* subsp. unknown | A       |
| 79 | Ligustrum lucidum        | *Xf* subsp. unknown | A       |
| 80 | Liquidambar styraciflua  | *Xf* subsp. unknown | A       |
| 81 | Lonicera japonica        | *Xf* subsp. unknown | A       |
| 82 | Lupinus aridorum         | *Xf* subsp. unknown | A       |
| 83 | Lupinus villosus         | *Xf* subsp. unknown | A       |
| 84 | Magnolia grandiflora     | *Xf* subsp. unknown | A       |
| 85 | Mallotus paniculatus     | *Xf* subsp. unknown | A       |
| 86 | Medicago sativa          | *Xf* subsp. unknown | A       |
| 87 | Mimosa sp.               | *Xf* subsp. unknown | A       |
| 88 | Modiola caroliniana      | *Xf* subsp. unknown | A       |
| 89 | Morus alba               | *Xf* subsp. unknown | A       |
| 90 | Morus rubra              | *Xf* subsp. unknown | A       |
| 91 | Morus sp.                | *Xf* subsp. unknown | A       |
| 92 | Myoporum insulare        | *Xf* subsp. unknown | A       |
| 93 | Myrtus communis          | *Xf* subsp. unknown | A       |
| 94 | Nandina domestica        | *Xf* subsp. unknown | A       |
| 95 | Neptunia lutea           | *Xf* subsp. unknown | A       |
| 96 | Nerium oleander          | *Xf* subsp. unknown | A       |
| 97 | Olea europaea            | *Xf* subsp. unknown | A       |
| 98 | Olea europaea subsp. sylvestris | *Xf* subsp. unknown | A       |
| 99 | Olea sp.                 | *Xf* subsp. unknown | A       |
| 100| Parthenocissus quinquefolia | *Xf* subsp. unknown | A       |
| 101| Paspalum dilatatum       | *Xf* subsp. unknown | A       |
| 102| Periwinkle (common name) | *Xf* subsp. unknown | A       |
| 103| Persea americana         | *Xf* subsp. unknown | A       |
| 104| Phagnalon saxatile       | *Xf* subsp. unknown | A       |
| 105| Phlomis italica          | *Xf* subsp. unknown | A       |
| 106| Phoenix reclinata        | *Xf* subsp. unknown | A       |
| 107| Phoenix roebelenii       | *Xf* subsp. unknown | A       |
| 108| Pinus taeda              | *Xf* subsp. unknown | A       |
| 109| Platanus occidentalis    | *Xf* subsp. unknown | A       |
| 110| Platanus sp.             | *Xf* subsp. unknown | A       |
| 111| Polygala myrtifolia      | *Xf* subsp. unknown | A       |
| 112| Prunus avium             | *Xf* subsp. unknown | A       |
| 113| Prunus cerasifera        | *Xf* subsp. unknown | A       |
| 114| Prunus cerasifera × P. munsoniana | *Xf* subsp. unknown | A       |
| 115| Prunus dulcis            | *Xf* subsp. unknown | A       |
| 116| Prunus persica           | *Xf* subsp. unknown | A       |
| 117| Prunus salicina          | *Xf* subsp. unknown | A       |
| 118| Prunus sp.               | *Xf* subsp. unknown | A       |
| 119| Pyrus pyrifolia          | *Xf* subsp. unknown | A       |
| 120| Pyrus sp.                | *Xf* subsp. unknown | A       |
| 121| Quercus coccinea         | *Xf* subsp. unknown | A       |
| 122| Quercus falcata          | *Xf* subsp. unknown | A       |
| 123| Quercus laevis           | *Xf* subsp. unknown | A       |
| 124| Quercus laurifolia       | *Xf* subsp. unknown | A       |
| 125| Quercus nigra            | *Xf* subsp. unknown | A       |
| 126| Quercus palustris        | *Xf* subsp. unknown | A       |
| 127| Quercus rubra            | *Xf* subsp. unknown | A       |
| N  | Plant species                      | Pest       | Category |
|----|-----------------------------------|------------|----------|
| 128| Quercus sp.                       | Xf subsp. unknown | A        |
| 129| Quercus velutina                  | Xf subsp. unknown | A        |
| 130| Quercus virginiana                | Xf subsp. unknown | A        |
| 131| Ratibida columnifera              | Xf subsp. unknown | A        |
| 132| Rhamnus alaternus                 | Xf subsp. unknown | A        |
| 133| Rhus sp.                          | Xf subsp. unknown | A        |
| 134| Rubus hedycaurus subsp. procerus  | Xf subsp. unknown | A        |
| 135| Rubus sp.                         | Xf subsp. unknown | A        |
| 136| Salvia officinalis                | Xf subsp. unknown | A        |
| 137| Salvia rosmarinus                 | Xf subsp. unknown | A        |
| 138| Sambucus canadensis               | Xf subsp. unknown | A        |
| 139| Santolina chamaecyparissus        | Xf subsp. unknown | A        |
| 140| Sassafras albidum                 | Xf subsp. unknown | A        |
| 141| Sassafras sp.                     | Xf subsp. unknown | A        |
| 142| Setaria magna                     | Xf subsp. unknown | A        |
| 143| Solidago fistulosa                | Xf subsp. unknown | A        |
| 144| Spartium junceum                  | Xf subsp. unknown | A        |
| 145| Stewartia pseudocamellia          | Xf subsp. unknown | A        |
| 146| Symphyotrichum divaricatum        | Xf subsp. unknown | A        |
| 147| Trifolium repens                  | Xf subsp. unknown | A        |
| 148| Ulmus americana                   | Xf subsp. unknown | A        |
| 149| Ulmus glabra                      | Xf subsp. unknown | A        |
| 150| Ulmus pumila                      | Xf subsp. unknown | A        |
| 151| Ulmus sp.                         | Xf subsp. unknown | A        |
| 152| Vaccinium ashei                   | Xf subsp. unknown | A        |
| 153| Vaccinium corymbosum              | Xf subsp. unknown | A        |
| 154| Vaccinium sp.                     | Xf subsp. unknown | A        |
| 155| Vaccinium virgatum                | Xf subsp. unknown | A        |
| 156| Vinca major                       | Xf subsp. unknown | A        |
| 157| Vinca minor                       | Xf subsp. unknown | A        |
| 158| Vitex agnus-castus                | Xf subsp. unknown | A        |
| 159| Vitis californica                 | Xf subsp. unknown | A        |
| 160| Vitis candicans                   | Xf subsp. unknown | A        |
| 161| Vitis labrusca                    | Xf subsp. unknown | A        |
| 162| Vitis labrusca × V. vinifera      | Xf subsp. unknown | A        |
| 163| Vitis munsoniana                  | Xf subsp. unknown | A        |
| 164| Vitis muscadinia                  | Xf subsp. unknown | A        |
| 165| Vitis riparia                     | Xf subsp. unknown | A        |
| 166| Vitis rotundifolia                | Xf subsp. unknown | A        |
| 167| Vitis sp.                         | Xf subsp. unknown | A        |
| 168| Vitis vinifera                    | Xf subsp. unknown | A        |
| 169| Acer saccharum                    | Xf subsp. unknown | B        |
| 170| Cyperus eragrostis                | Xf subsp. unknown | B        |
| 171| Hevea brasiliensis                | Xf subsp. unknown | B        |
| 172| Prunus domestica                  | Xf subsp. unknown | B        |
| 173| Sorghum halepense                 | Xf subsp. unknown | B        |
| 174| Acacia longifolia                 | Xf subsp. unknown | C        |
| 175| Acer macrophyllum                 | Xf subsp. unknown | C        |
| 176| Acer negundo                      | Xf subsp. unknown | C        |
| 177| Acer platanoides                  | Xf subsp. unknown | C        |
| \( N \) | Plant species | Pest | Category |
|---|---|---|---|
| 178 | Acer sp. | \( Xf \) subsp. unknown | C |
| 179 | Aesculus \( \times \) hybrida | \( Xf \) subsp. unknown | C |
| 180 | Agathis australis | \( Xf \) subsp. unknown | C |
| 181 | Agrostis gigantea | \( Xf \) subsp. unknown | C |
| 182 | Alectryon excelsus | \( Xf \) subsp. unknown | C |
| 183 | Alternanthera ficoidea | \( Xf \) subsp. unknown | C |
| 184 | Amaranthus sp. | \( Xf \) subsp. unknown | C |
| 185 | Anisantha diandra | \( Xf \) subsp. unknown | C |
| 186 | Anisantha rigida | \( Xf \) subsp. unknown | C |
| 187 | Arctostaphylos sp. | \( Xf \) subsp. unknown | C |
| 188 | Artemisia douglasiana | \( Xf \) subsp. unknown | C |
| 189 | Atriplex sp. | \( Xf \) subsp. unknown | C |
| 190 | Avena fatua | \( Xf \) subsp. unknown | C |
| 191 | Axonopus compressus | \( Xf \) subsp. unknown | C |
| 192 | Baccharis pilularis | \( Xf \) subsp. unknown | C |
| 193 | Bidens pilosa | \( Xf \) subsp. unknown | C |
| 194 | Boerhavia diffusa | \( Xf \) subsp. unknown | C |
| 195 | Boreria latifolia | \( Xf \) subsp. unknown | C |
| 196 | Brachiaria decumbens | \( Xf \) subsp. unknown | C |
| 197 | Brachiaria plantaginea | \( Xf \) subsp. unknown | C |
| 198 | Brachyglottis sp. | \( Xf \) subsp. unknown | C |
| 199 | Bromus sp. | \( Xf \) subsp. unknown | C |
| 200 | Broussonetia papyrifera | \( Xf \) subsp. unknown | C |
| 201 | Calicotome sp. | \( Xf \) subsp. unknown | C |
| 202 | Calicotome spinosa | \( Xf \) subsp. unknown | C |
| 203 | Calyptocarpus biaristatus | \( Xf \) subsp. unknown | C |
| 204 | Campsis radicans | \( Xf \) subsp. unknown | C |
| 205 | Capsella bursa-pastoris | \( Xf \) subsp. unknown | C |
| 206 | Carex sp. | \( Xf \) subsp. unknown | C |
| 207 | Celastrus orbiculatus | \( Xf \) subsp. unknown | C |
| 208 | Chenopodium bilinatum | \( Xf \) subsp. unknown | C |
| 209 | Chloris halophila | \( Xf \) subsp. unknown | C |
| 211 | Coffea arabica \( \times \) C. canephora | \( Xf \) subsp. unknown | C |
| 212 | Coffea arabica \( \times \) C. eugenioides | \( Xf \) subsp. unknown | C |
| 213 | Coffea arabica \( \times \) C. liberica var. dewevrei | \( Xf \) subsp. unknown | C |
| 214 | Coffea arabica \( \times \) C. racemosa | \( Xf \) subsp. unknown | C |
| 215 | Coffea canephora | \( Xf \) subsp. unknown | C |
| 216 | Coffea racemosa | \( Xf \) subsp. unknown | C |
| 217 | Coffea eugenioides | \( Xf \) subsp. unknown | C |
| 218 | Coffea kapakata | \( Xf \) subsp. unknown | C |
| 219 | Coffea liberica var. dewevrei | \( Xf \) subsp. unknown | C |
| 220 | Coffea stenophylla | \( Xf \) subsp. unknown | C |
| 221 | Commelina benghalensis | \( Xf \) subsp. unknown | C |
| 222 | Commelina erecta | \( Xf \) subsp. unknown | C |
| 223 | Convolvulus arvensis | \( Xf \) subsp. unknown | C |
| 224 | Coprosma repens | \( Xf \) subsp. unknown | C |
| 225 | Coprosma robusta | \( Xf \) subsp. unknown | C |
| 226 | Cordyline australis | \( Xf \) subsp. unknown | C |
| 227 | Cordyline sp. | \( Xf \) subsp. unknown | C |
| N  | Plant species          | Pest | Category |
|----|------------------------|------|----------|
| 228| Cornus florida         | Xf   | unknown  |
| 229| Corokia cotoneaster    | Xf   | unknown  |
| 230| Corokia macrocarpa     | Xf   | unknown  |
| 231| Corokia sp.            | Xf   | unknown  |
| 232| Corynocarps laevigatus | Xf   | unknown  |
| 233| Croton setigerus       | Xf   | unknown  |
| 234| Cynodon dactylon       | Xf   | unknown  |
| 235| Cyperus sp.            | Xf   | unknown  |
| 236| Cytisus scoparius      | Xf   | unknown  |
| 237| Datura wrightii        | Xf   | unknown  |
| 238| Digitaria horizontalis | Xf   | unknown  |
| 239| Digitaria insularis    | Xf   | unknown  |
| 240| Digitaria sanguinalis  | Xf   | unknown  |
| 241| Duranta erecta         | Xf   | unknown  |
| 242| Dysphania ambrosioides | Xf   | unknown  |
| 243| Echinochloa crus-galli | Xf   | unknown  |
| 244| Eleusine indica        | Xf   | unknown  |
| 245| Erigeron canadensis    | Xf   | unknown  |
| 246| Eriochloa contracta    | Xf   | unknown  |
| 247| Eriogonum sp.          | Xf   | unknown  |
| 248| Erodium botrys         | Xf   | unknown  |
| 249| Erodium moschatum      | Xf   | unknown  |
| 250| Erodium sp.            | Xf   | unknown  |
| 251| Escallonia bifida      | Xf   | unknown  |
| 252| Eucalyptus sp.         | Xf   | unknown  |
| 253| Euphorbia hirta        | Xf   | unknown  |
| 254| Facelis retusa         | Xf   | unknown  |
| 255| Fragaria vesca subsp.  | Xf   | unknown  |
| 256| Fraxinus dipetala      | Xf   | unknown  |
| 257| Fuchsia magellanica    | Xf   | unknown  |
| 258| Genista lucida         | Xf   | unknown  |
| 259| Geranium dissectum     | Xf   | unknown  |
| 260| Haloragis erecta       | Xf   | unknown  |
| 261| Hebe sp.               | Xf   | unknown  |
| 262| Hedera helix           | Xf   | unknown  |
| 263| Heliotropium frutosum  | Xf   | unknown  |
| 264| Heliotropium indicum   | Xf   | unknown  |
| 265| Heterotheca grandiflora| Xf   | unknown  |
| 266| Hordeum murinum        | Xf   | unknown  |
| 267| Hydrangea paniculata   | Xf   | unknown  |
| 268| Hypocharis brasiliensis| Xf   | unknown  |
| 269| Ipomea fistulosa       | Xf   | unknown  |
| 270| Juglans regia          | Xf   | unknown  |
| 271| Lactuca serriola       | Xf   | unknown  |
| 272| Leonurus sibiricus     | Xf   | unknown  |
| 273| Lepidium auriculatum   | Xf   | unknown  |
| 274| Lepidium didymum       | Xf   | unknown  |
| 275| Ligustrum sinense      | Xf   | unknown  |
| 276| Ligustrum virginicum   | Xf   | unknown  |
| 277| Liriodendron tulipifera| Xf   | unknown  |
| N   | Plant species                  | Pest       | Category |
|-----|--------------------------------|------------|----------|
| 278 | Lolium multiflorum Xf          | subsp. unknown | C       |
| 279 | Lolium perenne Xf              | subsp. unknown | C       |
| 280 | Ludwigia grandiflora Xf        | subsp. unknown | C       |
| 281 | Malva parviflora Xf            | subsp. unknown | C       |
| 282 | Marrubium vulgare Xf           | subsp. unknown | C       |
| 283 | Medicago polymorpha Xf         | subsp. unknown | C       |
| 284 | Melicope ternata Xf            | subsp. unknown | C       |
| 285 | Melicytus ramiflorus Xf        | subsp. unknown | C       |
| 286 | Melilotus sp. Xf               | subsp. unknown | C       |
| 287 | Melissa officinalis Xf         | subsp. unknown | C       |
| 288 | Merremia macrocalyx Xf         | subsp. unknown | C       |
| 289 | Meryta sinclairii Xf           | subsp. unknown | C       |
| 290 | Metrosideros excelsa Xf        | subsp. unknown | C       |
| 291 | Metrosideros sp. Xf            | subsp. unknown | C       |
| 292 | Metrosideros kermadecensis Xf  | subsp. unknown | C       |
| 293 | Montiastrum lineare Xf         | subsp. unknown | C       |
| 294 | Myoporum laetum Xf             | subsp. unknown | C       |
| 295 | Origanum majorana Xf           | subsp. unknown | C       |
| 296 | Panicum acuminatum Xf          | subsp. unknown | C       |
| 297 | Parthenocissus tricuspidata Xf | subsp. unknown | C       |
| 298 | Paspalum urvillei Xf           | subsp. unknown | C       |
| 299 | Paspalum regnellii Xf          | subsp. unknown | C       |
| 300 | Passiflora foetida Xf          | subsp. unknown | C       |
| 301 | Pennisetum clandestinum Xf     | subsp. unknown | C       |
| 302 | Persicaria lapathifolia Xf     | subsp. unknown | C       |
| 303 | Persicaria maculosa Xf         | subsp. unknown | C       |
| 304 | Phalaris angusta Xf            | subsp. unknown | C       |
| 305 | Phoenix sp. Xf                 | subsp. unknown | C       |
| 306 | Phormium colensoi Xf           | subsp. unknown | C       |
| 307 | Phormium tenax Xf              | subsp. unknown | C       |
| 308 | Pittosporum crassifolium Xf    | subsp. unknown | C       |
| 309 | Pittosporum eugenioides Xf     | subsp. unknown | C       |
| 310 | Pittosporum tenuifolium Xf     | subsp. unknown | C       |
| 311 | Pittosporum umbellatum Xf      | subsp. unknown | C       |
| 312 | Plantago lanceolata Xf         | subsp. unknown | C       |
| 313 | Pluchea odorata Xf             | subsp. unknown | C       |
| 314 | Poa annua Xf                   | subsp. unknown | C       |
| 315 | Polygonum arenastrum Xf        | subsp. unknown | C       |
| 316 | Portulaca oleracea Xf          | subsp. unknown | C       |
| 317 | Prunus angustifolia Xf         | subsp. unknown | C       |
| 318 | Prunus laurocerasus Xf         | subsp. unknown | C       |
| 319 | Prunus serotina Xf             | subsp. unknown | C       |
| 320 | Prunus serrulata Xf            | subsp. unknown | C       |
| 321 | Prunus simonii × P. salicina × P. cerasifera × P. munsoniana Xf | subsp. unknown | C       |
| 322 | Quercus agrifolia Xf           | subsp. unknown | C       |
| 323 | Quercus alba Xf                | subsp. unknown | C       |
| 324 | Quercus ilex Xf                | subsp. unknown | C       |
| 325 | Quercus imbricaria Xf          | subsp. unknown | C       |
| 326 | Quercus incana Xf              | subsp. unknown | C       |
| N  | Plant species            | Pest   | Category |
|----|--------------------------|--------|----------|
| 327 | Quercus macrocarpa       | Xf subsp. unknown | C      |
| 328 | Quercus phellos          | Xf subsp. unknown | C      |
| 329 | Ranunculus repens        | Xf subsp. unknown | C      |
| 330 | Rhus diversiloba         | Xf subsp. unknown | C      |
| 331 | Richardia sp.            | Xf subsp. unknown | C      |
| 332 | Rosa californica         | Xf subsp. unknown | C      |
| 333 | Rubus ursinus            | Xf subsp. unknown | C      |
| 334 | Rubus vitifolius         | Xf subsp. unknown | C      |
| 335 | Rumex crispus            | Xf subsp. unknown | C      |
| 336 | Salix sp.                | Xf subsp. unknown | C      |
| 337 | Salsola kali subsp. tragus | Xf subsp. unknown | C      |
| 338 | Sambucus cerulea         | Xf subsp. unknown | C      |
| 339 | Santolina magonica       | Xf subsp. unknown | C      |
| 340 | Senecio grisebachii      | Xf subsp. unknown | C      |
| 341 | Senecio vulgaris         | Xf subsp. unknown | C      |
| 342 | Senna secundiflora       | Xf subsp. unknown | C      |
| 343 | Sida rhombifolia         | Xf subsp. unknown | C      |
| 344 | Silybum marianum         | Xf subsp. unknown | C      |
| 345 | Sisymbrium irio          | Xf subsp. unknown | C      |
| 346 | Solanum americanum       | Xf subsp. unknown | C      |
| 347 | Sonchus oleraceus        | Xf subsp. unknown | C      |
| 348 | Sonchus sp.              | Xf subsp. unknown | C      |
| 349 | Sophora secundiflora     | Xf subsp. unknown | C      |
| 350 | Stachys arvensis         | Xf subsp. unknown | C      |
| 351 | Stellaria media          | Xf subsp. unknown | C      |
| 352 | Syzygium paniculatum     | Xf subsp. unknown | C      |
| 353 | Taraxacum officinale     | Xf subsp. unknown | C      |
| 354 | Trifolium incarnatum     | Xf subsp. unknown | C      |
| 355 | Ulex parviflorus         | Xf subsp. unknown | C      |
| 356 | Urtica dioica subsp. gracilis | Xf subsp. unknown | C      |
| 357 | Urtica urens             | Xf subsp. unknown | C      |
| 358 | Verbena litoralis        | Xf subsp. unknown | C      |
| 359 | Veronia                     | Xf subsp. unknown | C      |
| 360 | Vicia ludoviciana        | Xf subsp. unknown | C      |
| 361 | Vitex lucens             | Xf subsp. unknown | C      |
| 362 | Vitis arizonica          | Xf subsp. unknown | C      |
| 363 | Vitis girdiana           | Xf subsp. unknown | C      |
| 364 | Wisteria frutescens      | Xf subsp. unknown | C      |
| 365 | Xanthium spinosum        | Xf subsp. unknown | C      |
| 366 | Citrus × limonia         | Xf subsp. unknown | E      |
| 367 | Coffea liberica          | Xf subsp. unknown | D      |
| 368 | Prunus americana         | Xf subsp. unknown | D      |
| 369 | Prunus munsoniana        | Xf subsp. unknown | D      |
| 370 | Prunus simonii           | Xf subsp. unknown | D      |
| 371 | Solidago canadensis      | Xf subsp. unknown | D      |
| 372 | Prunus armeniaca         | Xf subsp. unknown | E      |
| 373 | Prunus hortulana         | Xf subsp. unknown | E      |
| N  | Plant species                  | Pest       | Category |
|----|--------------------------------|------------|----------|
| 377| Prunus mexicana                | Xf subsp. unknown | E        |
| 378| Ulmus × hollandica             | Xf subsp. unknown | E        |
| 379| Vitis aestivalis               | Xf subsp. unknown | E        |
| 380| Vitis bourquiniana             | Xf subsp. unknown | E        |
| 381| Vitis cinerea                  | Xf subsp. unknown | E        |
| 382| Vitis simpsonii                | Xf subsp. unknown | E        |
| 383| Vitis × champinii              | Xf subsp. unknown | E        |
| 384| Vitis rufomentosa              | Xf subsp. unknown | E        |
| 385| Vitis shuttleworthii           | Xf subsp. unknown | E        |
|    |                                |            |          |
| 1  | Acer sp.                       | Xf subsp. fastidiosa | A        |
| 2  | Ambrosia artemisifolia         | Xf subsp. fastidiosa | A        |
| 3  | Calicotome spinosa             | Xf subsp. fastidiosa | A        |
| 4  | Cercis occidentalis            | Xf subsp. fastidiosa | A        |
| 5  | Cistus monspeliensis           | Xf subsp. fastidiosa | A        |
| 6  | Citrus sinensis                | Xf subsp. fastidiosa | A        |
| 7  | Coffea arabica                 | Xf subsp. fastidiosa | A        |
| 8  | Coffea canephora               | Xf subsp. fastidiosa | A        |
| 9  | Coffea sp.                     | Xf subsp. fastidiosa | A        |
| 10 | Erysimum hybrids               | Xf subsp. fastidiosa | A        |
| 11 | Ficus carica                   | Xf subsp. fastidiosa | A        |
| 12 | Genista lucida                 | Xf subsp. fastidiosa | A        |
| 13 | Juglans regia                  | Xf subsp. fastidiosa | A        |
| 14 | Lupinus aridorum               | Xf subsp. fastidiosa | A        |
| 15 | Magnolia grandiflora           | Xf subsp. fastidiosa | A        |
| 16 | Medicago sativa                | Xf subsp. fastidiosa | A        |
| 17 | Metrosterales sp.              | Xf subsp. fastidiosa | A        |
| 18 | Morus sp.                      | Xf subsp. fastidiosa | A        |
| 19 | Nerium oleander                | Xf subsp. fastidiosa | A        |
| 20 | Pluchea odorata                | Xf subsp. fastidiosa | A        |
| 21 | Polygala myrtifolia            | Xf subsp. fastidiosa | A        |
| 22 | Prunus avium                   | Xf subsp. fastidiosa | A        |
| 23 | Prunus dulcis                  | Xf subsp. fastidiosa | A        |
| 24 | Prunus persica                 | Xf subsp. fastidiosa | A        |
| 25 | Prunus sp.                     | Xf subsp. fastidiosa | A        |
| 26 | Psidium sp.                    | Xf subsp. fastidiosa | A        |
| 27 | Rhamnus alaternus              | Xf subsp. fastidiosa | A        |
| 28 | Rubus rigidus                  | Xf subsp. fastidiosa | A        |
| 29 | Rubus urinus                   | Xf subsp. fastidiosa | A        |
| 30 | Ruta chalepensis               | Xf subsp. fastidiosa | A        |
| 31 | Salvia rosmarinus              | Xf subsp. fastidiosa | A        |
| 32 | Sambucus canadensis            | Xf subsp. fastidiosa | A        |
| 33 | Sambucus sp.                   | Xf subsp. fastidiosa | A        |
| 34 | Spartium junceum               | Xf subsp. fastidiosa | A        |
| 35 | Streptocarpus hybrids          | Xf subsp. fastidiosa | A        |
| 36 | Teucrium capitatum             | Xf subsp. fastidiosa | A        |
| 37 | Ulmus americana                | Xf subsp. fastidiosa | A        |
| 38 | Vaccinium corymbosum           | Xf subsp. fastidiosa | A        |
| 39 | Vinca major                    | Xf subsp. fastidiosa | A        |
| N  | Plant species                          | Pest                          | Category |
|----|---------------------------------------|-------------------------------|----------|
| 40 | Vinca sp.                             | Xf subsp. fastidiosa          | A        |
| 41 | Vitis aestivalis                      | Xf subsp. fastidiosa          | A        |
| 42 | Vitis aestivalis hybrid               | Xf subsp. fastidiosa          | A        |
| 43 | Vitis californica                     | Xf subsp. fastidiosa          | A        |
| 44 | Vitis candidans                       | Xf subsp. fastidiosa          | A        |
| 45 | Vitis cinerea var. helleri × V. vulpina | Xf subsp. fastidiosa         | A        |
| 46 | Vitis girdiana                        | Xf subsp. fastidiosa          | A        |
| 47 | Vitis hybrids                         | Xf subsp. fastidiosa          | A        |
| 48 | Vitis rotundifolia                    | Xf subsp. fastidiosa          | A        |
| 49 | Vitis sp.                             | Xf subsp. fastidiosa          | A        |
| 50 | Vitis vinifera                        | Xf subsp. fastidiosa          | A        |
| 51 | Broussonetia papyrifera               | Xf subsp. fastidiosa          | C        |
| 52 | Quercus sp.                           | Xf subsp. fastidiosa          | C        |
| 53 | Ulmus sp.                             | Xf subsp. fastidiosa          | C        |

| N  | Plant species                          | Pest                          | Category |
|----|---------------------------------------|-------------------------------|----------|
| 1  | Acacia cultriformis                   | Xf subsp. multiplex           | A        |
| 2  | Acacia dealbata                       | Xf subsp. multiplex           | A        |
| 3  | Acacia longifolia                     | Xf subsp. multiplex           | A        |
| 4  | Acacia melanoxylon                    | Xf subsp. multiplex           | A        |
| 5  | Acacia saligna                        | Xf subsp. multiplex           | A        |
| 6  | Acacia sp.                            | Xf subsp. multiplex           | A        |
| 7  | Acer griseum                          | Xf subsp. multiplex           | A        |
| 8  | Acer pseudoplatanus                   | Xf subsp. multiplex           | A        |
| 9  | Acer rubrum                           | Xf subsp. multiplex           | A        |
| 10 | Adenocarpus lai.nzii                  | Xf subsp. multiplex           | A        |
| 11 | Alnus rhombifolia                     | Xf subsp. multiplex           | A        |
| 12 | Ambrosia psilostachya                 | Xf subsp. multiplex           | A        |
| 13 | Ambrosia sp.                          | Xf subsp. multiplex           | A        |
| 14 | Ambrosia trifida                      | Xf subsp. multiplex           | A        |
| 15 | Ambrosia trifida var. texana          | Xf subsp. multiplex           | A        |
| 16 | Ampelopsis cordata                    | Xf subsp. multiplex           | A        |
| 17 | Anthyllis hermanniae                  | Xf subsp. multiplex           | A        |
| 18 | Arbutus unedo                         | Xf subsp. multiplex           | A        |
| 19 | Argyranthemum frutescens             | Xf subsp. multiplex           | A        |
| 20 | Artemisia absinthium                  | Xf subsp. multiplex           | A        |
| 21 | Artemisia arborescens                 | Xf subsp. multiplex           | A        |
| 22 | Artemisia sp.                         | Xf subsp. multiplex           | A        |
| 23 | Asparagus acutifolius                 | Xf subsp. multiplex           | A        |
| 24 | Athyrium filix-femina                 | Xf subsp. multiplex           | A        |
| 25 | Baccharis halimifolia                 | Xf subsp. multiplex           | A        |
| 26 | Berberis thunbergii                   | Xf subsp. multiplex           | A        |
| 27 | Calicotome spinosa                    | Xf subsp. multiplex           | A        |
| 28 | Calicotome villosa                    | Xf subsp. multiplex           | A        |
| 29 | Callistemon citrinus                  | Xf subsp. multiplex           | A        |
| 30 | Calluna vulgaris                      | Xf subsp. multiplex           | A        |
| 31 | Calocephalus brownii                  | Xf subsp. multiplex           | A        |
| 32 | Carya illinoensis                     | Xf subsp. multiplex           | A        |
| 33 | Carya sp.                             | Xf subsp. multiplex           | A        |
| 34 | Celtis occidentalis                   | Xf subsp. multiplex           | A        |
| N  | Plant species          | Pest          | Category |
|----|------------------------|---------------|----------|
| 35 | Cercis canadensis      | Xf subsp. multiplex | A        |
| 36 | Cercis occidentalis    | Xf subsp. multiplex | A        |
| 37 | Cercis siliquastrum    | Xf subsp. multiplex | A        |
| 38 | Chionanthus sp.        | Xf subsp. multiplex | A        |
| 39 | Cistus albicans        | Xf subsp. multiplex | A        |
| 40 | Cistus creticus        | Xf subsp. multiplex | A        |
| 41 | Cistus inflatus        | Xf subsp. multiplex | A        |
| 42 | Cistus monspeliensis   | Xf subsp. multiplex | A        |
| 43 | Cistus salvifolius     | Xf subsp. multiplex | A        |
| 44 | Cistus sp.             | Xf subsp. multiplex | A        |
| 45 | Clematis cirrhosa      | Xf subsp. multiplex | A        |
| 46 | Clematis vitalba       | Xf subsp. multiplex | A        |
| 47 | Convolvulus cneorum    | Xf subsp. multiplex | A        |
| 48 | Coprosma repens       | Xf subsp. multiplex | A        |
| 49 | Coronilla valentina    | Xf subsp. multiplex | A        |
| 50 | Coronilla valentina subsp. glauca | Xf subsp. multiplex | A        |
| 51 | Cytisus scoparius      | Xf subsp. multiplex | A        |
| 52 | Cytisus sp.            | Xf subsp. multiplex | A        |
| 53 | Cytisus spinosa        | Xf subsp. multiplex | A        |
| 54 | Cytisus villosus       | Xf subsp. multiplex | A        |
| 55 | Dimorphotheca ecklonis | Xf subsp. multiplex | A        |
| 56 | Dodonaea viscosa       | Xf subsp. multiplex | A        |
| 57 | Echium plantagineum    | Xf subsp. multiplex | A        |
| 58 | Elaeagnus angustifolia | Xf subsp. multiplex | A        |
| 59 | Elaeagnus × submacrophylla | Xf subsp. multiplex | A        |
| 60 | Encelia farinosa       | Xf subsp. multiplex | A        |
| 61 | Erica cinerea          | Xf subsp. multiplex | A        |
| 62 | Erigeron canadensis    | Xf subsp. multiplex | A        |
| 63 | Erigeron karvinskianus | Xf subsp. multiplex | A        |
| 64 | Eriocephalus africanus | Xf subsp. multiplex | A        |
| 65 | Erodium moschatum      | Xf subsp. multiplex | A        |
| 66 | Euryops chrysanthemoides | Xf subsp. multiplex | A        |
| 67 | Euryops pectinatus     | Xf subsp. multiplex | A        |
| 68 | Fallopia japonica      | Xf subsp. multiplex | A        |
| 69 | Ficus carica           | Xf subsp. multiplex | A        |
| 70 | Frangula alnus         | Xf subsp. multiplex | A        |
| 71 | Fraxinus americana     | Xf subsp. multiplex | A        |
| 72 | Fraxinus angustifolia  | Xf subsp. multiplex | A        |
| 73 | Fraxinus sp.           | Xf subsp. multiplex | A        |
| 74 | Gazania rigens         | Xf subsp. multiplex | A        |
| 75 | Genista corsica        | Xf subsp. multiplex | A        |
| 76 | Genista ephedroides    | Xf subsp. multiplex | A        |
| 77 | Genista scorpius       | Xf subsp. multiplex | A        |
| 78 | Genista sp.            | Xf subsp. multiplex | A        |
| 79 | Genista tridentata     | Xf subsp. multiplex | A        |
| 80 | Genista valdes-bermejoi | Xf subsp. multiplex | A        |
| 81 | Genista × spachiana    | Xf subsp. multiplex | A        |
| 82 | Ginkgo biloba          | Xf subsp. multiplex | A        |
| 83 | Gleditsia triacanthos  | Xf subsp. multiplex | A        |
| 84 | Grevillea juniperina   | Xf subsp. multiplex | A        |
| N  | Plant species                  | Pest               | Category |
|----|-------------------------------|--------------------|----------|
| 85 | Hebe elliptica                | Xf subsp. multiplex| A        |
| 86 | Hebe sp.                      | Xf subsp. multiplex| A        |
| 87 | Helianthus annuus             | Xf subsp. multiplex| A        |
| 88 | Helianthus sp.                | Xf subsp. multiplex| A        |
| 89 | Helichrysum italicum          | Xf subsp. multiplex| A        |
| 90 | Helichrysum sp.               | Xf subsp. multiplex| A        |
| 91 | Helichrysum stoechas          | Xf subsp. multiplex| A        |
| 92 | Hibiscus syriacus             | Xf subsp. multiplex| A        |
| 93 | Hypericum perforatum          | Xf subsp. multiplex| A        |
| 94 | Ilex aquifolium               | Xf subsp. multiplex| A        |
| 95 | Iva annua                     | Xf subsp. multiplex| A        |
| 96 | Jacobaea maritima             | Xf subsp. multiplex| A        |
| 97 | Koelreuteria bipinnata        | Xf subsp. multiplex| A        |
| 98 | Lagerstroemia indica          | Xf subsp. multiplex| A        |
| 99 | Lagerstroemia sp.             | Xf subsp. multiplex| A        |
| 100| Laurus nobilis                | Xf subsp. multiplex| A        |
| 101| Lavandula angustifolia        | Xf subsp. multiplex| A        |
| 102| Lavandula dentata             | Xf subsp. multiplex| A        |
| 103| Lavandula latifolia           | Xf subsp. multiplex| A        |
| 104| Lavandula sp.                 | Xf subsp. multiplex| A        |
| 105| Lavandula stoechas            | Xf subsp. multiplex| A        |
| 106| Lavandula × heterophylla      | Xf subsp. multiplex| A        |
| 107| Lavandula × intermedia        | Xf subsp. multiplex| A        |
| 108| Lavatera cretica              | Xf subsp. multiplex| A        |
| 109| Liquidambar styraciflua       | Xf subsp. multiplex| A        |
| 110| Lonicera implexa              | Xf subsp. multiplex| A        |
| 111| Lonicera japonica             | Xf subsp. multiplex| A        |
| 112| Lupinus aridorum              | Xf subsp. multiplex| A        |
| 113| Lupinus villosus              | Xf subsp. multiplex| A        |
| 114| Magnolia grandiflora          | Xf subsp. multiplex| A        |
| 115| Magnolia × soulangeana        | Xf subsp. multiplex| A        |
| 116| Medicago arborea              | Xf subsp. multiplex| A        |
| 117| Medicago sativa               | Xf subsp. multiplex| A        |
| 118| Metrosideros excelsa          | Xf subsp. multiplex| A        |
| 119| Metrosideros sp.              | Xf subsp. multiplex| A        |
| 120| Myopororum laetum             | Xf subsp. multiplex| A        |
| 121| Myrtus communis               | Xf subsp. multiplex| A        |
| 122| Nerium oleander               | Xf subsp. multiplex| A        |
| 123| Olea europaea                 | Xf subsp. multiplex| A        |
| 124| Olea europaea subsp. sylvestris| Xf subsp. multiplex| A        |
| 125| Olea sp.                      | Xf subsp. multiplex| A        |
| 126| Pelargonium graveolens        | Xf subsp. multiplex| A        |
| 127| Pelargonium sp.               | Xf subsp. multiplex| A        |
| 128| Periwinkle (common name)      | Xf subsp. multiplex| A        |
| 129| Perovskia abrotanoides        | Xf subsp. multiplex| A        |
| 130| Phagnalon saxatile            | Xf subsp. multiplex| A        |
| 131| Phillyrea angustifolia         | Xf subsp. multiplex| A        |
| 132| Phillyrea latifolia            | Xf subsp. multiplex| A        |
| 133| Phlomis fruticosa             | Xf subsp. multiplex| A        |
| 134| Pistacia vera                 | Xf subsp. multiplex| A        |

Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021
| N  | Plant species                  | Pest              | Category |
|----|--------------------------------|-------------------|----------|
| 135| Plantago lanceolata            | Xf subsp. multiplex A |
| 136| Platanus occidentalis          | Xf subsp. multiplex A |
| 137| Platanus sp.                   | Xf subsp. multiplex A |
| 138| Polygala myrtifolia            | Xf subsp. multiplex A |
| 139| Polygala × grandiflora nana    | Xf subsp. multiplex A |
| 140| Prunus armeniaca               | Xf subsp. multiplex A |
| 141| Prunus avium                   | Xf subsp. multiplex A |
| 142| Prunus cerasiferana             | Xf subsp. multiplex A |
| 143| Prunus cerasus                  | Xf subsp. multiplex A |
| 144| Prunus domestica                | Xf subsp. multiplex A |
| 145| Prunus dulcis                   | Xf subsp. multiplex A |
| 146| Prunus laurocerasus             | Xf subsp. multiplex A |
| 147| Prunus persica                  | Xf subsp. multiplex A |
| 148| Prunus salicina                 | Xf subsp. multiplex A |
| 149| Prunus sp.                      | Xf subsp. multiplex A |
| 150| Pteridium aquilinum            | Xf subsp. multiplex A |
| 151| Quercus cocciifera              | Xf subsp. multiplex A |
| 152| Quercus falcata                 | Xf subsp. multiplex A |
| 153| Quercus ilex                    | Xf subsp. multiplex A |
| 154| Quercus laevis                  | Xf subsp. multiplex A |
| 155| Quercus macrocarpa              | Xf subsp. multiplex A |
| 156| Quercus nigra                   | Xf subsp. multiplex A |
| 157| Quercus palustris               | Xf subsp. multiplex A |
| 158| Quercus phellos                 | Xf subsp. multiplex A |
| 159| Quercus pubescens               | Xf subsp. multiplex A |
| 160| Quercus robur                   | Xf subsp. multiplex A |
| 161| Quercus rubra                   | Xf subsp. multiplex A |
| 162| Quercus shumardii               | Xf subsp. multiplex A |
| 163| Quercus sp.                     | Xf subsp. multiplex A |
| 164| Quercus suber                   | Xf subsp. multiplex A |
| 165| Ratibida columnifera            | Xf subsp. multiplex A |
| 166| Retama monosperma               | Xf subsp. multiplex A |
| 167| Rhamnus alaternus               | Xf subsp. multiplex A |
| 168| Rhamnus sp.                     | Xf subsp. multiplex A |
| 169| Robinia pseudoacacia            | Xf subsp. multiplex A |
| 170| Rosa canina                     | Xf subsp. multiplex A |
| 171| Rosa sp.                        | Xf subsp. multiplex A |
| 172| Rubus sp.                       | Xf subsp. multiplex A |
| 173| Rubus ulmifolius                | Xf subsp. multiplex A |
| 174| Salvia mellifera                | Xf subsp. multiplex A |
| 175| Salvia officinalis              | Xf subsp. multiplex A |
| 176| Salvia rosmarinus               | Xf subsp. multiplex A |
| 177| Salvia sp.                      | Xf subsp. multiplex A |
| 178| Sambucus nigra                  | Xf subsp. multiplex A |
| 179| Sambucus sp.                    | Xf subsp. multiplex A |
| 180| Santolina chamaecyparissus       | Xf subsp. multiplex A |
| 181| Santolina magonica              | Xf subsp. multiplex A |
| 182| Sapindus saponaria              | Xf subsp. multiplex A |
| 183| Scabiosa sp.                    | Xf subsp. multiplex A |
| 184| Solidago virgaurea              | Xf subsp. multiplex A |
| N  | Plant species          | Pest                  | Category |
|----|------------------------|-----------------------|----------|
| 185| Spartium junceum       | Xf subsp. multiplex   | A        |
| 186| Spartium sp.           | Xf subsp. multiplex   | A        |
| 187| Strelitzia reginae     | Xf subsp. multiplex   | A        |
| 188| Ulex europaeus         | Xf subsp. multiplex   | A        |
| 189| Ulex minor             | Xf subsp. multiplex   | A        |
| 190| Ulex parviflorus       | Xf subsp. multiplex   | A        |
| 191| Ulex sp.               | Xf subsp. multiplex   | A        |
| 192| Ulmus americana        | Xf subsp. multiplex   | A        |
| 193| Ulmus crassifolia      | Xf subsp. multiplex   | A        |
| 194| Ulmus sp.              | Xf subsp. multiplex   | A        |
| 195| Vaccinium ashei        | Xf subsp. multiplex   | A        |
| 196| Vaccinium corymbosum   | Xf subsp. multiplex   | A        |
| 197| Vaccinium sp.          | Xf subsp. multiplex   | A        |
| 198| Viburnum tinus         | Xf subsp. multiplex   | A        |
| 199| Vinca major            | Xf subsp. multiplex   | A        |
| 200| Vinca sp.              | Xf subsp. multiplex   | A        |
| 201| Vitex agnus-castus     | Xf subsp. multiplex   | A        |
| 202| Westringia fruticosa   | Xf subsp. multiplex   | A        |
| 203| Xanthium strumarium    | Xf subsp. multiplex   | A        |
| 204| Acer platanoides       | Xf subsp. multiplex   | C        |
| 205| Calicotome sp.         | Xf subsp. multiplex   | C        |
| 206| Cistus × incanus       | Xf subsp. multiplex   | C        |
| 207| Liriodendron tulipifera| Xf subsp. multiplex   | C        |
| 208| Polygala sp.           | Xf subsp. multiplex   | C        |
| 209| Polygala × dalmaisiana | Xf subsp. multiplex   | C        |
| 210| Vitis vinifera         | Xf subsp. multiplex   | C        |

| N  | Plant species          | Pest                  | Category |
|----|------------------------|-----------------------|----------|
| 1  | Acacia saligna         | Xf subsp. pauca       | A        |
| 2  | Acacia sp.             | Xf subsp. pauca       | A        |
| 3  | Amaranthus retroflexus | Xf subsp. pauca       | A        |
| 4  | Asparagus acutifolius  | Xf subsp. pauca       | A        |
| 5  | Catharanthus roseus    | Xf subsp. pauca       | A        |
| 6  | Chenopodium album      | Xf subsp. pauca       | A        |
| 7  | Cistus albidus         | Xf subsp. pauca       | A        |
| 8  | Cistus creticus        | Xf subsp. pauca       | A        |
| 9  | Citrus sinensis        | Xf subsp. pauca       | A        |
| 10 | Citrus sp.             | Xf subsp. pauca       | A        |
| 11 | Coffea arabica         | Xf subsp. pauca       | A        |
| 12 | Coffea sp.             | Xf subsp. pauca       | A        |
| 13 | Dimorphotheca fruticosa| Xf subsp. pauca       | A        |
| 14 | Dodonaea viscosa       | Xf subsp. pauca       | A        |
| 15 | Eremophila maculata    | Xf subsp. pauca       | A        |
| 16 | Erigeron bonariensis   | Xf subsp. pauca       | A        |
| 17 | Erigeron sp.           | Xf subsp. pauca       | A        |
| 18 | Erigeron sumatrensis   | Xf subsp. pauca       | A        |
| 19 | Euphorbia chamaesyce   | Xf subsp. pauca       | A        |
| 20 | Euphorbia terracina    | Xf subsp. pauca       | A        |
| 21 | Grevillea juniperina   | Xf subsp. pauca       | A        |
| 22 | Hebe sp.               | Xf subsp. pauca       | A        |
| N | Plant species                  | Pest     | Category |
|---|-------------------------------|----------|----------|
| 23| Heliotropium europaeum        | Xf subsp. pauca | A        |
| 24| Hibiscus rosa-sinensis        | Xf subsp. pauca | A        |
| 25| Hibiscus sp.                  | Xf subsp. pauca | A        |
| 26| Laurus nobilis                | Xf subsp. pauca | A        |
| 27| Lavandula angustifolia        | Xf subsp. pauca | A        |
| 28| Lavandula dentata             | Xf subsp. pauca | A        |
| 29| Lavandula sp.                 | Xf subsp. pauca | A        |
| 30| Lavandula stoechas            | Xf subsp. pauca | A        |
| 31| Myoporum insulare             | Xf subsp. pauca | A        |
| 32| Myrtus communis               | Xf subsp. pauca | A        |
| 33| Nerium oleander               | Xf subsp. pauca | A        |
| 34| Olea europaea                 | Xf subsp. pauca | A        |
| 35| Olea europaea subsp. sylvestris| Xf subsp. pauca | A        |
| 36| Pelargonium fragrans          | Xf subsp. pauca | A        |
| 37| Pelargonium sp.               | Xf subsp. pauca | A        |
| 38| Periwinkle (common name)      | Xf subsp. pauca | A        |
| 39| Phillyrea latifolia            | Xf subsp. pauca | A        |
| 40| Pistacia vera                 | Xf subsp. pauca | A        |
| 41| Polygala myrtifolia           | Xf subsp. pauca | A        |
| 42| Prunus avium                  | Xf subsp. pauca | A        |
| 43| Prunus domestica              | Xf subsp. pauca | A        |
| 44| Prunus dulcis                 | Xf subsp. pauca | A        |
| 45| Prunus sp.                    | Xf subsp. pauca | A        |
| 46| Rhamnus alternus              | Xf subsp. pauca | A        |
| 47| Salvia rosmarinus             | Xf subsp. pauca | A        |
| 48| Salvia sp.                    | Xf subsp. pauca | A        |
| 49| Spartium junceum              | Xf subsp. pauca | A        |
| 50| Ulex parviflorus              | Xf subsp. pauca | A        |
| 51| Vinca minor                   | Xf subsp. pauca | A        |
| 52| Westringia fruticosa          | Xf subsp. pauca | A        |
| 53| Westringia glabra             | Xf subsp. pauca | A        |
| 54| Polygala sp.                  | Xf subsp. pauca | A        |
| 55| Prunus persica                | Xf subsp. pauca | A        |
| 56| Quercus ilex                  | Xf subsp. pauca | A        |
| 57| Salvia officinalis            | Xf subsp. pauca | C        |

**N Plant species Pest Category**

| N | Plant species | Pest     | Category |
|---|---------------|----------|----------|
| 1 | Morus alba    | Xf subsp. morus | A  |
| 2 | Morus rubra   | Xf subsp. morus | A  |
| 3 | Morus sp.     | Xf subsp. morus | A  |
| 4 | Nandina domestica | Xf subsp. morus | A  |

**N Plant species Pest Category**

| N | Plant species | Pest     | Category |
|---|---------------|----------|----------|
| 1 | Coffea arabica | Xf subsp. sandyi | A  |
| 2 | Coffea sp.    | Xf subsp. sandyi | A  |
| 3 | Hemerocallis sp. | Xf subsp. sandyi | A  |
| 4 | Jacaranda mimosifolia | Xf subsp. sandyi | A  |
| 5 | Magnolia grandiflora | Xf subsp. sandyi | A  |
| 6 | Nandina domestica | Xf subsp. sandyi | A  |
| No. | Plant species             | Pest                  | Category |
|-----|---------------------------|-----------------------|----------|
| 7   | Nerium oleander           | Xf subsp. sandyi      | A        |
| 8   | Polygala myrtifolia       | Xf subsp. sandyi      | C        |
| 1   | Chitalpa tashkentensis    | Xf subsp. tashke      | A        |
| 1   | Coffea arabica            | Xf subsp. fastidiosa/ sandyi | A        |
| 2   | Coffea canephora          | Xf subsp. fastidiosa/ sandyi | A        |
| 386 | Pyrus pyrifolia           | Xylella taiwanensis   | A        |
Appendix B – Host plant species artificially infected

List of host plant species, artificially infected, of X. fastidiosa subsp. unknown (i.e. not reported in the publication), subsp. fastidiosa, subsp. morus, subsp. multiplex, subsp. pauca, subsp. sandyi and subsp. tashke according to categories A, B, C, D, E (as reported in Section 2.4.2):

A. Plant species positive with at least two detection methods (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

B. The same as point A, but also including microscopy: plant species positive with at least two detection methods (among: microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

C. Plant species positive with at least one detection method (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

D. Plant species positive with at least one detection method including microscopy (microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

E. All positives plant species reported, regardless of the detection methods (positive records but without the detection method specified, symptom observations, microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing, pure culture isolation).

| N  | Plant species       | Pest       | Category |
|----|---------------------|------------|----------|
| 1  | Acer macrophyllum   | Xf subsp. unknown | A        |
| 2  | Acer negundo       | Xf subsp. unknown | A        |
| 3  | Aesculus californica | Xf subsp. unknown | A        |
| 4  | Alnus rhombifolia  | Xf subsp. unknown | A        |
| 5  | Ambrosia artemisifolia | Xf subsp. unknown | A        |
| 6  | Ambrosia sp.       | Xf subsp. unknown | A        |
| 7  | Periwinkle (common name) | Xf subsp. unknown | A        |
| 8  | Arabidopsis thaliana | Xf subsp. unknown | A        |
| 9  | Artemisia douglasiana | Xf subsp. unknown | A        |
| 10 | Baccharis pilularis | Xf subsp. unknown | A        |
| 11 | Baccharis salicifolia | Xf subsp. unknown | A        |
| 12 | Brassica nigra     | Xf subsp. unknown | A        |
| 13 | Carya illinoinensis | Xf subsp. unknown | A        |
| 14 | Catharanthus roseus | Xf subsp. unknown | A        |
| 15 | Citrus aurantiifolia | Xf subsp. unknown | A        |
| 16 | Citrus clementina  | Xf subsp. unknown | A        |
| 17 | Citrus clementina × C. sinensis | Xf subsp. unknown | A        |
| 18 | Citrus jambhiri    | Xf subsp. unknown | A        |
| 19 | Citrus reshni      | Xf subsp. unknown | A        |
| 20 | Citrus reticulate  | Xf subsp. unknown | A        |
| 21 | Citrus sinensis    | Xf subsp. unknown | A        |
| 22 | Citrus sp.         | Xf subsp. unknown | A        |
| 23 | Citrus sunki       | Xf subsp. unknown | A        |
| 24 | Citrus unshiu      | Xf subsp. unknown | A        |
| 25 | Citrus × limonia   | Xf subsp. unknown | A        |
| 26 | Citrus × nobilis   | Xf subsp. unknown | A        |
| 27 | Coffea arabica     | Xf subsp. unknown | A        |
| 28 | Coffea sp.         | Xf subsp. unknown | A        |
| N  | Plant species              | Pest       | Category |
|----|---------------------------|------------|----------|
| 29 | Conium maculatum          | Xf subsp. unknown | A        |
| 30 | Coptosma repens           | Xf subsp. unknown | A        |
| 31 | Coriandrum sativum        | Xf subsp. unknown | A        |
| 32 | Cyperus eragrostis        | Xf subsp. unknown | A        |
| 33 | Echinochloa crus-galli    | Xf subsp. unknown | A        |
| 34 | Fagopyrum esculentum      | Xf subsp. unknown | A        |
| 35 | Fraxinus latifolia        | Xf subsp. unknown | A        |
| 36 | Hakea petiolaris          | Xf subsp. unknown | A        |
| 37 | Hedera helix              | Xf subsp. unknown | A        |
| 38 | Lobularia maritima        | Xf subsp. unknown | A        |
| 39 | Medicago sativa           | Xf subsp. unknown | A        |
| 40 | Morus alba                | Xf subsp. unknown | A        |
| 41 | Morus sp.                 | Xf subsp. unknown | A        |
| 42 | Nerium oleander           | Xf subsp. unknown | A        |
| 43 | Nicotiana benthamiana     | Xf subsp. unknown | A        |
| 44 | Nicotiana tabacum         | Xf subsp. unknown | A        |
| 45 | Parthenocissus quinquefolia | Xf subsp. unknown | A        |
| 46 | Persea americana          | Xf subsp. unknown | A        |
| 47 | Platanus occidentalis     | Xf subsp. unknown | A        |
| 48 | Populus fremontii         | Xf subsp. unknown | A        |
| 49 | Prunus cerasifera         | Xf subsp. unknown | A        |
| 50 | Prunus dulcis             | Xf subsp. unknown | A        |
| 51 | Prunus persica            | Xf subsp. unknown | A        |
| 52 | Prunus salicina           | Xf subsp. unknown | A        |
| 53 | Prunus sp.                | Xf subsp. unknown | A        |
| 54 | Pyrus pyrifolia           | Xf subsp. unknown | A        |
| 55 | Quercus agrifolia         | Xf subsp. unknown | A        |
| 56 | Quercus lobata            | Xf subsp. unknown | A        |
| 57 | Quercus rubra             | Xf subsp. unknown | A        |
| 58 | Rhus diversiloba          | Xf subsp. unknown | A        |
| 59 | Rosa californica          | Xf subsp. unknown | A        |
| 60 | Rubus hedycarpus subsp. procerus | Xf subsp. unknown | A        |
| 61 | Rubus rigidus             | Xf subsp. unknown | A        |
| 62 | Rubus ursinus             | Xf subsp. unknown | A        |
| 63 | Salix laevigata           | Xf subsp. unknown | A        |
| 64 | Salix lasiolepis          | Xf subsp. unknown | A        |
| 65 | Salvia apiana             | Xf subsp. unknown | A        |
| 66 | Salvia mellifera          | Xf subsp. unknown | A        |
| 67 | Sambucus canadensis       | Xf subsp. unknown | A        |
| 68 | Sambucus sp.              | Xf subsp. unknown | A        |
| 69 | Spartium junceum          | Xf subsp. unknown | A        |
| 70 | Swainsona galegifolia     | Xf subsp. unknown | A        |
| 71 | Symphoricarpus albus      | Xf subsp. unknown | A        |
| 72 | Teline monspessulana      | Xf subsp. unknown | A        |
| 73 | Ulmus americana           | Xf subsp. unknown | A        |
| 74 | Umbellularia californica  | Xf subsp. unknown | A        |
| 75 | Urtica dioica             | Xf subsp. unknown | A        |
| 76 | Vaccinium corymbosum      | Xf subsp. unknown | A        |
| 77 | Vaccinium sp.             | Xf subsp. unknown | A        |
| 78 | Vicia sativa              | Xf subsp. unknown | A        |
| N | Plant species                  | Pest | Category |
|---|--------------------------------|------|----------|
| 79 | Vinca major                   | Xf subsp. unknown | A |
| 80 | Vinca minor                   | Xf subsp. unknown | A |
| 81 | Vitis arizonica × V. rupestris | Xf subsp. unknown | A |
| 82 | Vitis arizonica/candicans × V. rupestris | Xf subsp. unknown | A |
| 83 | Vitis californica             | Xf subsp. unknown | A |
| 84 | Vitis labrusca × V. vinifera  | Xf subsp. unknown | A |
| 85 | Vitis rotundifolia            | Xf subsp. unknown | A |
| 86 | Vitis rotundifolia × V. rupestris | Xf subsp. unknown | A |
| 87 | Vitis rupestris               | Xf subsp. unknown | A |
| 88 | Vitis sp.                     | Xf subsp. unknown | A |
| 89 | Vitis vinifera                | Xf subsp. unknown | A |
| 90 | Morus rubra                   | Xf subsp. unknown | B |
| 91 | Prunus domestica              | Xf subsp. unknown | B |
| 92 | Vitis aestivalis var. smalliana | Xf subsp. unknown | B |
| 93 | Vitis rufotomentosa           | Xf subsp. unknown | B |
| 94 | Ambrosia acanthicarpa         | Xf subsp. unknown | C |
| 95 | Ambrosia trifida var. texana  | Xf subsp. unknown | C |
| 96 | Amsinckia douglasiana         | Xf subsp. unknown | C |
| 97 | Anisantha rigida              | Xf subsp. unknown | C |
| 98 | Avena fatua                   | Xf subsp. unknown | C |
| 99 | Brachiania plantaginea        | Xf subsp. unknown | C |
| 100 | Bromus sp.                    | Xf subsp. unknown | C |
| 101 | Callistephus chinensis        | Xf subsp. unknown | C |
| 102 | Canna sp.                     | Xf subsp. unknown | C |
| 103 | Ceratobchoa cathartica        | Xf subsp. unknown | C |
| 104 | Citrus deliciosa × C. sinensis | Xf subsp. unknown | C |
| 105 | Citrus medica                 | Xf subsp. unknown | C |
| 106 | Citrus tangerina              | Xf subsp. unknown | C |
| 107 | Citrus × tangelo              | Xf subsp. unknown | C |
| 108 | Clarkia amoena subsp. lindleyi | Xf subsp. unknown | C |
| 109 | Coprosma baueri               | Xf subsp. unknown | C |
| 110 | Cotoneaster rotundifolius     | Xf subsp. unknown | C |
| 111 | Cynodon dactylon              | Xf subsp. unknown | C |
| 112 | Cyperus esculentus            | Xf subsp. unknown | C |
| 113 | Cytisus scoparius             | Xf subsp. unknown | C |
| 114 | Daucus carota subsp. sativus  | Xf subsp. unknown | C |
| 115 | Digitaria sanguinalis         | Xf subsp. unknown | C |
| 116 | Dysphania ambrosioides        | Xf subsp. unknown | C |
| 117 | Epilobium brachycarpum        | Xf subsp. unknown | C |
| 118 | Epilobium ciliatum            | Xf subsp. unknown | C |
| 119 | Eragrostis diffusa            | Xf subsp. unknown | C |
| 120 | Erodium cicutarium            | Xf subsp. unknown | C |
| 121 | Fallopia convolvulus          | Xf subsp. unknown | C |
| 122 | Grevillea alpina              | Xf subsp. unknown | C |
| 123 | Helianthus annuus             | Xf subsp. unknown | C |
| 124 | Hordeum murinum               | Xf subsp. unknown | C |
| 125 | Hordeum vulgare               | Xf subsp. unknown | C |
| 126 | Iva annua                     | Xf subsp. unknown | C |
| 127 | Lactuca serriola              | Xf subsp. unknown | C |
| 128 | Lathyrus cicera               | Xf subsp. unknown | C |
| N  | Plant species               | Pest   | Category |
|----|-----------------------------|--------|----------|
| 129| Lathyrus clymenum           | Xf subsp. unknown | C       |
| 130| Lathyrus sativus            | Xf subsp. unknown | C       |
| 131| Leptospermum laevigatum     | Xf subsp. unknown | C       |
| 132| Lolium multiflorum          | Xf subsp. unknown | C       |
| 133| Lolium temulentum           | Xf subsp. unknown | C       |
| 134| Lonicera japonica           | Xf subsp. unknown | C       |
| 135| Melilotus albus             | Xf subsp. unknown | C       |
| 136| Melilotus albus var. annuus | Xf subsp. unknown | C       |
| 137| Melilotus indicus           | Xf subsp. unknown | C       |
| 138| Melilotus officinalis       | Xf subsp. unknown | C       |
| 139| Mentha sp.                  | Xf subsp. unknown | C       |
| 140| Oenanthe sarmentosa         | Xf subsp. unknown | C       |
| 141| Oenothera elata             | Xf subsp. unknown | C       |
| 142| Olea europaea               | Xf subsp. unknown | C       |
| 143| Parthenocissus tricuspidata | Xf subsp. unknown | C       |
| 144| Paspalum dilatatum          | Xf subsp. unknown | C       |
| 145| Pelargonium × hortorum      | Xf subsp. unknown | C       |
| 146| Pennisetum clandestinum     | Xf subsp. unknown | C       |
| 147| Pennisetum glaucum          | Xf subsp. unknown | C       |
| 148| Persicaria maculosa         | Xf subsp. unknown | C       |
| 149| Phalaris minor              | Xf subsp. unknown | C       |
| 150| Phalaris paradoxa           | Xf subsp. unknown | C       |
| 151| Phleum pratense             | Xf subsp. unknown | C       |
| 152| Photinia arbutifolia        | Xf subsp. unknown | C       |
| 153| Pittosporum crassifolium    | Xf subsp. unknown | C       |
| 154| Platanus sp.                | Xf subsp. unknown | C       |
| 155| Poa annua                   | Xf subsp. unknown | C       |
| 156| Poncirus trifoliata         | Xf subsp. unknown | C       |
| 157| Reseda odorata              | Xf subsp. unknown | C       |
| 158| Rheum rhaponticum           | Xf subsp. unknown | C       |
| 159| Rubus vitifolius            | Xf subsp. unknown | C       |
| 160| Rumex crispus               | Xf subsp. unknown | C       |
| 161| Sambucus cerulea            | Xf subsp. unknown | C       |
| 162| Sonchus asper               | Xf subsp. unknown | C       |
| 163| Sorghum halepense           | Xf subsp. unknown | C       |
| 164| Sorghum × drummondii        | Xf subsp. unknown | C       |
| 165| Syringa vulgaris            | Xf subsp. unknown | C       |
| 166| Syzygium paniculatum        | Xf subsp. unknown | C       |
| 167| Trifolium fragiferum        | Xf subsp. unknown | C       |
| 168| Trifolium hybridum          | Xf subsp. unknown | C       |
| 169| Trifolium incarnatum        | Xf subsp. unknown | C       |
| 170| Trifolium pratense          | Xf subsp. unknown | C       |
| 171| Trifolium repens            | Xf subsp. unknown | C       |
| 172| Trifolium repens var. latum | Xf subsp. unknown | C       |
| 173| Urtica dioica subsp. gracilis | Xf subsp. unknown | C       |
| 174| Vicia monantha              | Xf subsp. unknown | C       |
| 175| Vitis acerifolia            | Xf subsp. unknown | C       |
| 176| Vitis aestivalis            | Xf subsp. unknown | C       |
| 177| Vitis arizonica             | Xf subsp. unknown | C       |
| 178| Vitis arizonica hybrid      | Xf subsp. unknown | C       |

Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021

www.efsa.europa.eu/efsajournal 38  EFSA Journal 2022;20(6):7356
| N  | Plant species | Pest                          | Category |
|----|---------------|-------------------------------|----------|
| 179 | Vitis arizonica/candicans | Xf subsp. unknown | C        |
| 180 | Vitis arizonica/girdiana | Xf subsp. unknown | C        |
| 181 | Vitis arizonica/girdiana × V. rupestris | Xf subsp. unknown | C        |
| 182 | Vitis berlandieri | Xf subsp. unknown | C        |
| 183 | Vitis candidans | Xf subsp. unknown | C        |
| 184 | Vitis cinerea | Xf subsp. unknown | C        |
| 185 | Vitis cinerea × V. berlandieri | Xf subsp. unknown | C        |
| 186 | Vitis girdiana | Xf subsp. unknown | C        |
| 187 | Vitis labrusca | Xf subsp. unknown | C        |
| 188 | Vitis lincecumii | Xf subsp. unknown | C        |
| 189 | Vitis monticola | Xf subsp. unknown | C        |
| 190 | Vitis munsoniana | Xf subsp. unknown | C        |
| 191 | Vitis palmata | Xf subsp. unknown | C        |
| 192 | Vitis riparia | Xf subsp. unknown | C        |
| 193 | Vitis simpsonii | Xf subsp. unknown | C        |
| 194 | Vitis tilaefolia | Xf subsp. unknown | C        |
| 195 | Vitis vulpina | Xf subsp. unknown | C        |
| 196 | Vitis × champinii | Xf subsp. unknown | C        |
| 197 | Vitis aestivalis var. smalliana × V. simpsonii | Xf subsp. unknown | C        |
| 198 | Vitis bloodwothiana | Xf subsp. unknown | C        |
| 199 | Vitis nesbittiana | Xf subsp. unknown | C        |
| 200 | Vitis shuttleworthii | Xf subsp. unknown | C        |
| 201 | Vulpia myuros | Xf subsp. unknown | C        |
| 202 | Xanthium orientale | Xf subsp. unknown | C        |
| 203 | (Prunus salicina × P. angustifolia) × (P. salicina × P. munsoniana) | Xf subsp. unknown | D        |
| 204 | Prunus angustifolia | Xf subsp. unknown | D        |
| 205 | Prunus avium | Xf subsp. unknown | D        |
| 206 | Prunus cerasifera × P. salicina | Xf subsp. unknown | D        |
| 207 | Prunus salicina × (P. salicina × P. cerasifera) | Xf subsp. unknown | D        |
| 208 | Vitis arizonica × V. vinifera | Xf subsp. unknown | D        |
| 209 | Chenopodium quinoa | Xf subsp. unknown | E        |
| 210 | Citroncirus webberi | Xf subsp. unknown | E        |
| 211 | Citrus macrophylla | Xf subsp. unknown | E        |
| 212 | Nicotiana clevelandii | Xf subsp. unknown | E        |
| 213 | Prunus armeniaca | Xf subsp. unknown | E        |
| 214 | Prunus hortulana | Xf subsp. unknown | E        |
| 215 | Prunus mexicana | Xf subsp. unknown | E        |
| 216 | Prunus nume | Xf subsp. unknown | E        |

| N  | Plant species | Pest                          | Category |
|----|---------------|-------------------------------|----------|
| 1   | Amaranthus blitoides | Xf subsp. fastidiosa | A        |
| 2   | Ambrosia acanthicarpa | Xf subsp. fastidiosa | A        |
| 3   | Ambrosia artemisiifolia | Xf subsp. fastidiosa | A        |
| 4   | Catharanthus roseus | Xf subsp. fastidiosa | A        |
| 5   | Chenopodium quinoa | Xf subsp. fastidiosa | A        |
| 6   | Conium maculatum | Xf subsp. fastidiosa | A        |
| 7   | Convolvulus arvensis | Xf subsp. fastidiosa | A        |
| 8   | Cyperus esculentus | Xf subsp. fastidiosa | A        |
| 9   | Datura wrightii | Xf subsp. fastidiosa | A        |
| 10  | Echinocloa crus-galli | Xf subsp. fastidiosa | A        |
| N  | Plant species                  | Pest       | Category |
|----|--------------------------------|------------|----------|
| 11 | Erigeron canadensis            | Xf subsp. fastidiosa | A        |
| 12 | Erichloa gracilis             | Xf subsp. fastidiosa | A        |
| 13 | Erodium moschatum              | Xf subsp. fastidiosa | A        |
| 14 | Eucalyptus camaldulensis       | Xf subsp. fastidiosa | A        |
| 15 | Eucalyptus globulus            | Xf subsp. fastidiosa | A        |
| 16 | Helianthus annuus              | Xf subsp. fastidiosa | A        |
| 17 | Ipomoea purpurea               | Xf subsp. fastidiosa | A        |
| 18 | Lactuca serriola               | Xf subsp. fastidiosa | A        |
| 19 | Malva parviflora               | Xf subsp. fastidiosa | A        |
| 20 | Medicago sativa                | Xf subsp. fastidiosa | A        |
| 21 | Nicotiana glauca               | Xf subsp. fastidiosa | A        |
| 22 | Nicotiana tabacum              | Xf subsp. fastidiosa | A        |
| 23 | Portulaca oleracea             | Xf subsp. fastidiosa | A        |
| 24 | Prunus dulcis                  | Xf subsp. fastidiosa | A        |
| 25 | Prunus sp.                     | Xf subsp. fastidiosa | A        |
| 26 | Rubus ursinus                  | Xf subsp. fastidiosa | A        |
| 27 | Rumex crispus                  | Xf subsp. fastidiosa | A        |
| 28 | Simmondsia chinensis           | Xf subsp. fastidiosa | A        |
| 29 | Solanum lycopersicum           | Xf subsp. fastidiosa | A        |
| 30 | Solanum melongena              | Xf subsp. fastidiosa | A        |
| 31 | Sonchus oleraceus              | Xf subsp. fastidiosa | A        |
| 32 | Sorghum halepense              | Xf subsp. fastidiosa | A        |
| 33 | Vaccinium corymbosum           | Xf subsp. fastidiosa | A        |
| 34 | Vaccinium sp.                  | Xf subsp. fastidiosa | A        |
| 35 | Vicia faba                     | Xf subsp. fastidiosa | A        |
| 36 | Vicia sativa                   | Xf subsp. fastidiosa | A        |
| 37 | Vitis sp.                      | Xf subsp. fastidiosa | A        |
| 38 | Vitis vinifera                 | Xf subsp. fastidiosa | A        |
| 39 | Vitis vinifera hybrid          | Xf subsp. fastidiosa | A        |
| 40 | Xanthium strumarium            | Xf subsp. fastidiosa | A        |
| 41 | Arabidopsis thaliana           | Xf subsp. fastidiosa | B        |
| 42 | Dendranthema × grandiflorum    | Xf subsp. fastidiosa | C        |
| 43 | Laurus nobilis                 | Xf subsp. fastidiosa | C        |
| 44 | Myrtus communis                | Xf subsp. fastidiosa | C        |
| 45 | Olea europaea                  | Xf subsp. fastidiosa | C        |
| 46 | Polygala myrtifolia            | Xf subsp. fastidiosa | C        |
| 47 | Prunus armeniaca               | Xf subsp. fastidiosa | C        |
| 48 | Prunus domestica               | Xf subsp. fastidiosa | C        |
| 49 | Prunus dulcis × P. webbii      | Xf subsp. fastidiosa | C        |
| 50 | Prunus persica                 | Xf subsp. fastidiosa | C        |
| 51 | Prunus persica × P. webbii     | Xf subsp. fastidiosa | C        |
| 52 | Prunus webbii                  | Xf subsp. fastidiosa | C        |
| 53 | Pyrus communis                 | Xf subsp. fastidiosa | C        |
| 54 | Quercus petraea                | Xf subsp. fastidiosa | C        |
| 55 | Rubus rigida                   | Xf subsp. fastidiosa | C        |
| 56 | Salix alba                     | Xf subsp. fastidiosa | C        |
| 57 | Sambucus canadensis            | Xf subsp. fastidiosa | C        |
| 58 | Vinca major                    | Xf subsp. fastidiosa | C        |
| 59 | Vitis acerifolia               | Xf subsp. fastidiosa | C        |
| 60 | Vitis aestivalis               | Xf subsp. fastidiosa | C        |
| N | Plant species | Pest | Category |
|---|---------------|------|----------|
| 61 | Vitis arizonica | Xf subsp. fastidiosa | C |
| 62 | Vitis arizonica/candicans | Xf subsp. fastidiosa | C |
| 63 | Vitis berlandieri | Xf subsp. fastidiosa | C |
| 64 | Vitis californica | Xf subsp. fastidiosa | C |
| 65 | Vitis candicans | Xf subsp. fastidiosa | C |
| 66 | Vitis champinii × (V. solonis × V. othello) | Xf subsp. fastidiosa | C |
| 67 | Vitis cinerea | Xf subsp. fastidiosa | C |
| 68 | Vitis girdiana | Xf subsp. fastidiosa | C |
| 69 | Vitis labrusca | Xf subsp. fastidiosa | C |
| 70 | Vitis monticola | Xf subsp. fastidiosa | C |
| 71 | Vitis riparia | Xf subsp. fastidiosa | C |
| 72 | Vitis rupestris | Xf subsp. fastidiosa | C |
| 73 | Vitis tiliaeefolia | Xf subsp. fastidiosa | C |
| 74 | Vitis treleasei | Xf subsp. fastidiosa | C |
| 75 | Vitis vulpina | Xf subsp. fastidiosa | C |
| 76 | Vitis × doaniana | Xf subsp. fastidiosa | C |
| 77 | Vitis nesbittiana | Xf subsp. fastidiosa | C |
| 78 | Vitis shuttleworthii | Xf subsp. fastidiosa | C |
| 79 | Liquidambard styraciflua | Xf subsp. fastidiosa | E |

| N | Plant species | Pest | Category |
|---|---------------|------|----------|
| 1 | Acer rubrum | Xf subsp. multiplex | A |
| 2 | Ambrosia artemisiifolia | Xf subsp. multiplex | A |
| 3 | Carya illinoinensis | Xf subsp. multiplex | A |
| 4 | Liquidambard styraciflua | Xf subsp. multiplex | A |
| 5 | Medicago sativa | Xf subsp. multiplex | A |
| 6 | Nicotiana tabacum | Xf subsp. multiplex | A |
| 7 | Olea europaea | Xf subsp. multiplex | A |
| 8 | Pistacia vera | Xf subsp. multiplex | A |
| 9 | Platanus occidentalis | Xf subsp. multiplex | A |
| 10 | Polygala myrtifolia | Xf subsp. multiplex | A |
| 11 | Prunus cerasifera | Xf subsp. multiplex | A |
| 12 | Prunus dulcis | Xf subsp. multiplex | A |
| 13 | Prunus persica | Xf subsp. multiplex | A |
| 14 | Prunus sp. | Xf subsp. multiplex | A |
| 15 | Quercus falcata | Xf subsp. multiplex | A |
| 16 | Rubus fruticosus | Xf subsp. multiplex | A |
| 17 | Rubus ursinus | Xf subsp. multiplex | A |
| 18 | Vaccinium corymbosum | Xf subsp. multiplex | A |
| 19 | Vitis vinifera | Xf subsp. multiplex | A |
| 20 | Catharanthus roseus | Xf subsp. multiplex | C |
| 21 | Malus domestica | Xf subsp. multiplex | C |
| 22 | Nerium oleander | Xf subsp. multiplex | C |
| 23 | Prunus armeniaca | Xf subsp. multiplex | C |
| 24 | Prunus avium | Xf subsp. multiplex | C |
| 25 | Prunus domestica | Xf subsp. multiplex | C |
| 26 | Prunus persica × P. webbii | Xf subsp. multiplex | C |
| 27 | Prunus salicina | Xf subsp. multiplex | C |
| 28 | Prunus webbii | Xf subsp. multiplex | C |
| 29 | Pyrus communis | Xf subsp. multiplex | C |
### Table 1: Pest Species and Categories

| N  | Plant species | Pest         | Category |
|----|---------------|--------------|----------|
| 30 | Quercus petraea | *Xf* subsp. *multiplex* | C |
| 31 | Salix alba    | *Xf* subsp. *multiplex* | C |
| 32 | Vaccinium sp. | *Xf* subsp. *multiplex* | E |

| N  | Plant species | Pest         | Category |
|----|---------------|--------------|----------|
| 1  | Bidens pilosa | *Xf* subsp. *pauca* | A |
| 2  | Brachiaria decumbens | *Xf* subsp. *pauca* | A |
| 3  | Brachiaria plantaginea | *Xf* subsp. *pauca* | A |
| 4  | Catharanthus roseus | *Xf* subsp. *pauca* | A |
| 5  | Citrus reticulata | *Xf* subsp. *pauca* | A |
| 6  | Citrus sinensis | *Xf* subsp. *pauca* | A |
| 7  | Citrus sp. | *Xf* subsp. *pauca* | A |
| 8  | Coffea arabica | *Xf* subsp. *pauca* | A |
| 9  | Coffea sp. | *Xf* subsp. *pauca* | A |
| 10 | Echinocloa crus-galli | *Xf* subsp. *pauca* | A |
| 11 | Jasminum azoricum | *Xf* subsp. *pauca* | A |
| 12 | Medicago sativa | *Xf* subsp. *pauca* | A |
| 13 | Nerium oleander | *Xf* subsp. *pauca* | A |
| 14 | Nicotiana clevelandii | *Xf* subsp. *pauca* | A |
| 15 | Nicotiana tabacum | *Xf* subsp. *pauca* | A |
| 16 | Ocimum basilicum | *Xf* subsp. *pauca* | A |
| 17 | Olea europaea | *Xf* subsp. *pauca* | A |
| 18 | Polygala myrtifolia | *Xf* subsp. *pauca* | A |
| 19 | Solanum americanum | *Xf* subsp. *pauca* | A |
| 20 | Arabidopsis thaliana | *Xf* subsp. *pauca* | B |
| 21 | Periwinkle (common name) | *Xf* subsp. *pauca* | C |
| 22 | Chenopodium album | *Xf* subsp. *pauca* | C |
| 23 | Digitaria horizontalis | *Xf* subsp. *pauca* | C |
| 24 | Malus domestica | *Xf* subsp. *pauca* | C |
| 25 | Prunus avium | *Xf* subsp. *pauca* | C |
| 26 | Prunus domestica | *Xf* subsp. *pauca* | C |
| 27 | Prunus dulcis | *Xf* subsp. *pauca* | C |
| 28 | Pyrus communis | *Xf* subsp. *pauca* | C |
| 29 | Quercus petraea | *Xf* subsp. *pauca* | C |
| 30 | Salix alba | *Xf* subsp. *pauca* | C |
| 31 | Salvia rosmarinus | *Xf* subsp. *pauca* | C |
| 32 | Vitis vinifera | *Xf* subsp. *pauca* | C |

### Table 2: Pest Species and Categories

| N  | Plant species | Pest         | Category |
|----|---------------|--------------|----------|
| 1  | Morus alba    | *Xf* subsp. *morus* | A |
| 2  | Nerium oleander | *Xf* subsp. *morus* | A |

| N  | Plant species | Pest         | Category |
|----|---------------|--------------|----------|
| 1  | Catharanthus roseus | *Xf* subsp. *sandyi* | A |
| 2  | Medicago sativa | *Xf* subsp. *sandyi* | A |
| 3  | Nerium oleander | *Xf* subsp. *sandyi* | A |
| 4  | Prunus dulcis | *Xf* subsp. *sandyi* | A |
| 5  | Vinca major | *Xf* subsp. *sandyi* | A |
| 6  | Coffea arabica | *Xf* subsp. *sandyi* | C |
| 7  | Malus domestica | *Xf* subsp. *sandyi* | C |
| 8  | Nicotiana tabacum | *Xf* subsp. *sandyi* | C |
| N  | Plant species     | Pest            | Category |
|----|-------------------|-----------------|----------|
| 9  | *Olea europaea*   | *Xf* subsp. *sandyi* | C        |
| 10 | *Pyrus communis*  | *Xf* subsp. *sandyi* | C        |
| 11 | *Vitis vinifera*  | *Xf* subsp. *sandyi* | C        |
| 1  | *Nicotiana benthamiana* | *Xf* subsp. *tashke* | C        |
Appendix C – Host plant species infected in unspecified conditions

List of host plant species, infected in conditions not specified (i.e. the kind of infection (natural or artificial) was not specified in the reference), of X. fastidiosa subsp. unknown (i.e. not reported in the publication), subsp. fastidiosa, subsp. multiplex, subsp. pauca and subsp. sandyi according to categories A, B, C, D, E (as reported in Section 2.4.2):

A. Plant species positive with at least two detection methods (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

B. The same as point A, but also including microscopy: plant species positive with at least two detection methods (among: microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between: sequencing, pure culture isolation).

C. Plant species positive with at least one detection method (among: symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

D. Plant species positive with at least one detection method including microscopy (microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation).

E. All positives plant species reported, regardless of the detection methods (positive records but without the detection method specified, symptom observations, microscopy, symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing, pure culture isolation).

| N  | Plant species     | Pest      | Category |
|----|------------------|-----------|----------|
| 1  | Ampelopsis arborea | Xf subsp. unknown | A        |
| 2  | Catharanthus roseus | Xf subsp. unknown | A        |
| 3  | Catharanthus sp.   | Xf subsp. unknown | A        |
| 4  | Citrus jambhiri   | Xf subsp. unknown | A        |
| 5  | Citrus sinensis   | Xf subsp. unknown | A        |
| 6  | Coffea arabica    | Xf subsp. unknown | A        |
| 7  | Hibiscus schizopetalus | Xf subsp. unknown | A    |
| 8  | Morus nigra       | Xf subsp. unknown | A        |
| 9  | Nerium oleander   | Xf subsp. unknown | A        |
| 10 | Prunus persica    | Xf subsp. unknown | A        |
| 11 | Prunus sp.        | Xf subsp. unknown | A        |
| 12 | Sambucus canadensis | Xf subsp. unknown | A    |
| 13 | Vitis munsoniana  | Xf subsp. unknown | A        |
| 14 | Vitis rotundifolia | Xf subsp. unknown | A        |
| 15 | Vitis sp.         | Xf subsp. unknown | A        |
| 16 | Vitis vinifera    | Xf subsp. unknown | A        |
| 17 | Ambrosia sp.      | Xf subsp. unknown | B        |
| 18 | Periwinkle (common name) | Xf subsp. unknown | B    |
| 19 | Acer sp.          | Xf subsp. unknown | C        |
| 20 | Carya illinoinensis | Xf subsp. unknown | C        |
| 21 | Citrus sp.        | Xf subsp. unknown | C        |
| 22 | Prunus dulcis     | Xf subsp. unknown | C        |
| 23 | Prunus salicina   | Xf subsp. unknown | C        |
| 24 | Pyrus sp.         | Xf subsp. unknown | C        |
| 25 | Teline monspessulana | Xf subsp. unknown | C    |
| 26 | Vaccinium darrowii | Xf subsp. unknown | C        |
| 27 | Vaccinium sp.     | Xf subsp. unknown | C        |
| Plant species             | Pest                  | Category |
|--------------------------|-----------------------|----------|
| Prunus angustifolia      | XF subsp. unknown     | D        |
| Vitis labrusca           | XF subsp. unknown     | D        |
| Morus sp.                | XF subsp. unknown     | E        |
| Nicotiana tabacum        | XF subsp. unknown     | E        |
| Prunus dulcis            | XF subsp. fastidiosa  | A        |
| Sambucus sp.             | XF subsp. fastidiosa  | A        |
| Vitis rotundifolia       | XF subsp. fastidiosa  | A        |
| Vitis sp.                | XF subsp. fastidiosa  | A        |
| Vitis vinifera           | XF subsp. fastidiosa  | A        |

| Plant species             | Pest                  | Category |
|--------------------------|-----------------------|----------|
| Ambrosia artemisiifolia  | XF subsp. fastidiosa  | A        |
| Lupinus sp.              | XF subsp. fastidiosa  | A        |
| Prunus dulcis            | XF subsp. fastidiosa  | A        |
| Sambucus sp.             | XF subsp. fastidiosa  | A        |
| Vitis rotundifolia       | XF subsp. fastidiosa  | A        |
| Vitis sp.                | XF subsp. fastidiosa  | A        |
| Vitis vinifera           | XF subsp. fastidiosa  | A        |

| Plant species             | Pest                  | Category |
|--------------------------|-----------------------|----------|
| Prunus dulcis            | XF subsp. multiplex    | A        |
| Prunus domestica         | XF subsp. multiplex    | A        |
| Prunus salicina          | XF subsp. multiplex    | A        |
| Quercus sp.              | XF subsp. multiplex    | A        |
| Rubus fruticosus         | XF subsp. multiplex    | A        |
| Rubus sp.                | XF subsp. multiplex    | A        |
| Vaccinium corymbosum     | XF subsp. multiplex    | A        |
| Vaccinium corymbosum × V. angustifolium hybrid | XF subsp. multiplex | A |
| Vinca sp.                | XF subsp. multiplex    | A        |
| Liquidambar styraciflua  | XF subsp. multiplex    | C        |
| Quercus laevis           | XF subsp. multiplex    | C        |
| Quercus rubra            | XF subsp. multiplex    | C        |

| Plant species             | Pest                  | Category |
|--------------------------|-----------------------|----------|
| Citrus sinensis          | XF subsp. pauca       | A        |
| Citrus sp.               | XF subsp. pauca       | A        |
| Coffea sp.               | XF subsp. pauca       | A        |
| Hibiscus fragilis        | XF subsp. pauca       | A        |
| Hibiscus sp.             | XF subsp. pauca       | A        |
| Nerium oleander          | XF subsp. pauca       | A        |
| Prunus domestica         | XF subsp. pauca       | A        |
| Prunus sp.               | XF subsp. pauca       | A        |

| Plant species             | Pest                  | Category |
|--------------------------|-----------------------|----------|
| Coffea arabica           | XF subsp. sandyi      | A        |
| Nerium oleander          | XF subsp. sandyi      | C        |
Appendix D – Xylella fastidiosa Multilocus Sequence Types

Number of records for each plant species natural, artificial and infected in not specified conditions by different multilocus sequence types (STs). The records for natural infection are divided per country. In general, the subspecies and the STs are reported as in the publication. If the subspecies and/or the STs are inferred from another publication or obtained from personal communication of the author of the publication, a note is added in the genotyping comment column of the excel file available in Zenodo in the EFSA Knowledge Junction community (https://doi.org/10.5281/zenodo.1339343). Abbreviations: AR (Argentina), BR (Brazil), CR (Costa Rica), EC (Ecuador), FR (France), HN (Honduras), IT (Italy), MX (Mexico), PT (Portugal), ES (Spain), US (United States of America).

| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|---------------------------------------|---------|----------------------|------------------------|-------------|
|                                       | AR  | BR  | CR  | EC  | FR  | HN  | IT  | MX  | PT  | ES  | US  | Total | Total | Total | Total |
| **fastidiosa**                        | 22  | 19  | 70  | 125 | 236 | 177 | 9  | 422 |
| ST1                                   | 18  | 70  | 100 | 188 | 171 | 2   | 361 |
| Acer sp.                              | 1   | 1   |     |     |     |     |     |     |     |     |     | 1     |       |
| Amaranthus blitoides                  |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Ambrosia acanthicarpa                 |     |     |     |     |     |     |     |     |     |     |     | 2     |       |
| Calicotome spinose                    |     |     |     |     |     | 4   |     | 4   |     |     |     | 4     |       |
| Catharanthus roseus                   |     |     |     |     |     |     |     |     |     |     |     | 2     |       |
| Cercis occidentalis                   |     |     |     |     |     | 1   |     | 1   |     |     |     | 1     |       |
| Chenopodium quinoa                    |     |     |     |     |     |     |     |     |     |     |     | 2     |       |
| Cistus monspeliensis                  |     |     |     |     |     | 3   |     | 3   |     |     |     | 3     |       |
| Citrus sinensis                       |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Conium maculatum                      |     |     |     |     |     |     |     |     |     |     |     | 2     |       |
| Convolvulus arvensis                  |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Cyperus esculentus                    |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Datura wrightii                       |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Echinochloa crus-galli                |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Erigeron canadensis                   |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Eriochloa gracilis                    |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Erodium moschatum                     |     |     |     |     |     |     |     |     |     |     |     | 2     |       |
| Eucalyptus camaldulensis              |     |     |     |     |     |     |     |     |     |     |     | 2     |       |
| Eucalyptus globulus                   |     |     |     |     |     |     |     |     |     |     |     | 1     |       |
| Ficus carica                          |     |     |     |     |     |     |     |     |     |     |     | 1     |       |

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| X. fastidiosa subspecies/sequence type | Natural |        |        |        |        |        |        |        |        | Grand total |
|---------------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
|                                       | AR      | BR     | CR     | EC     | FR     | HN     | IT     | MX     | PT     |             |
| Genista lucida                        | 3       |        |        |        |        |        |        |        |        | 3           |
| Helianthus annuus                     |        |        |        |        |        |        |        |        | 3      | 3           |
| Ipomoea purpurea                      |        |        |        |        |        |        |        | 2      |        | 2           |
| Juglans regia                        |        |        |        |        |        |        |        |        | 4      | 4           |
| Lactuca serriola                     |        |        |        |        |        |        |        |        |        | 3           |
| Malva parviflora                     |        |        |        |        |        |        |        |        | 2      | 2           |
| Medicago sativa                      |        |        |        |        |        |        |        |        | 3      | 3           |
| Metrosideros sp.                     |        |        |        |        |        |        |        |        | 1      | 1           |
| Nicotiana glauca                     |        |        |        |        |        |        |        |        | 2      | 2           |
| Nicotiana tabacum                    |        |        |        |        |        |        |        |        | 1      | 1           |
| Olea europaea                         |        |        |        |        |        |        |        |        | 1      | 1           |
| Pluchea odorata                      |        |        |        |        |        |        |        | 1      |        | 1           |
| Polygala myrtifolia                  |        |        |        |        |        |        |        |        | 3      | 3           |
| Portulaca oleracea                   |        |        |        |        |        |        |        |        | 1      | 1           |
| Prunus avium                         |        |        |        |        |        |        |        | 11     | 2      | 13          |
| Prunus domestica                     |        |        |        |        |        |        |        |        | 1      | 1           |
| Prunus dulcis                        |        |        |        |        |        |        |        | 14     | 22     | 36          |
| Prunus dulcis                        |        |        |        |        |        |        |        | 4      |        | 4           |
| Prunus latifolius                    |        |        |        |        |        |        |        |        | 2      | 2           |
| Rumex crispus                        |        |        |        |        |        |        |        |        | 1      | 1           |
| Ruta chalepensis                     |        |        |        |        |        |        |        | 2      |        | 2           |
| Sambucus canadensis                  |        |        |        |        |        |        |        | 2      |        | 2           |
| Sambucus sp.                         |        |        |        |        |        |        |        | 1      |        | 1           |
| Simmondsia chinensis                 |        |        |        |        |        |        |        |        | 2      | 2           |
| Solanum lycopersicum                 |        |        |        |        |        |        |        | 1      |        | 1           |
| Solanum melongena                    |        |        |        |        |        |        |        | 1      |        | 1           |
| Sonchus oleraceus                    |        |        |        |        |        |        |        | 1      |        | 1           |
| Sorghum halepense                    |        |        |        |        |        |        |        |        | 1      | 1           |
| Spartium junceum                     |        |        |        |        |        |        |        | 1      | 1      | 1           |
| Teucrium capitatum                   |        |        |        |        |        |        |        | 2      |        | 2           |
### X. fastidiosa subspecies/sequence type

| Host Plant | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total |
|------------|----|----|----|----|----|----|----|----|----|----|----|---------|-------|
| Vaccinium corymbosum | 2 | 2 | 2 | 2 | 4 |
| Vaccinium sp. | 5 | 5 | 1 | 1 |
| Vicia faba | 1 | 1 |
| Vicia sativa | 1 |
| Vitis aestivalis | 2 | 2 |
| Vitis girdiana | 1 | 1 |
| Vitis sp. | 2 | 3 | 33 | 1 | 34 |
| Vitis vinifera | 16 | 19 | 28 | 63 | 54 | 117 |
| Vitis vinifera hybrid | 9 | 9 |
| Xanthium strumarium | 3 | 3 |
| ST17 | 1 | 1 | 1 |
| Coffea arabica | 1 | 1 |
| ST18 | 1 | 1 | 1 |
| Vitis sp. | 1 | 1 |
| ST19 | 1 | 1 | 1 |
| Coffea arabica | 1 | 1 |
| ST2 | 19 | 19 | 5 | 7 | 31 |
| Ambrosia artemisiifolia | 1 | 1 | 1 |
| Coffea sp. | 1 | 1 |
| Polyspermy myrtifolia | 1 | 1 |
| Prunus domestica | 1 | 1 |
| Quercus petraea | 1 | 1 |
| Salix alba | 1 | 1 |
| Vitis hybrids | 2 | 2 | 2 |
| Vitis rotundifolia | 5 | 5 | 1 | 6 |
| Vitis sp. | 5 | 5 | 5 |
| Vitis vinifera | 5 | 5 | 1 | 5 | 11 |
| ST20 | 1 | 1 | 1 |
| Coffea arabica | 1 | 1 |
| ST21 | 1 | 1 | 1 |
### X. fastidiosa subspecies/sequence type

| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|----------------------------------------|---------|----------------------|-------------------------|-------------|
|                                        | AR      | BR                   | CR                      | EC          | FR      | HN      | IT      | MX      | PT      | ES     | US     | Unknown | Total | Total | Total | Total |
| Coffea arabica                         | 1       | 1                    |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST3                                    |         |                      |                         |              |         |         |         |         |         |        |        |        |        |        |        |
| Lupinus aridorum                       |         |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST33                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Coffea arabica                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST4                                    |         |                      |                         |              |         |         |         |         |         | 5      | 5      | 1      | 6      |        |        |
| Medicago sativa                        |         |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Vitis sp.                              |         |                      |                         |              |         |         |         |         |         |        |        |        | 4      |        | 4      |
| Vitis vinifera                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST47                                   |         |                      |                         |              |         |         |         |         |         | 2      | 2      |        | 2      |        |        |
| Coffea arabica                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Vitis sp.                              |         |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST52                                   |         |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Coffea arabica                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST54                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Coffea arabica                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST55                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Coffea arabica                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST56                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Coffea arabica                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST57                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Coffea arabica                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST59                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Vitis vinifera                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST60                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Vitis vinifera                         | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| ST61                                   | 3       |                      |                         |              |         |         |         |         |         |        |        |        | 3      |        | 3      |
| Citrus sinensis                        | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
| Coffea arabica                         | 2       |                      |                         |              |         |         |         |         |         |        |        |        | 2      |        | 2      |
| ST72                                   | 1       |                      |                         |              |         |         |         |         |         |        |        |        | 1      |        | 1      |
### X. fastidiosa subspecies/sequence type

| Subspecies/Sequence Type | Natural | Artificial Infection | Infection not specified | Grand Total |
|--------------------------|---------|----------------------|-------------------------|-------------|
| Coffea arabica           | AR 1    | BR                    | CR 1                    | MX 1        |
| ST75                     | 1       | 1                    | 1                       | 1           |
| Coffea canephora         | 2       | 2                    | 2                       | 2           |
| ST76                     | 2       | 2                    | 2                       | 2           |
| Coffea arabica           | 1       | 1                    | 1                       | 1           |
| fastidiosa/sandyi        | 3       | 1                    | 4                       | 4           |
| ST72                     | 2       | 2                    | 2                       | 2           |
| Coffea arabica           | 1       | 1                    | 1                       | 1           |
| Coffea canephora         | 1       | 1                    | 1                       | 1           |
| ST75                     | 1       | 1                    | 1                       | 1           |
| Coffea arabica           | 1       | 1                    | 1                       | 1           |
| morus                    | 24      | 24                   | 24                      | 24          |
| ST29                     | 9       | 9                    | 9                       | 9           |
| Morus alba               | 3       | 3                    | 3                       | 3           |
| Morus rubra              | 4       | 4                    | 4                       | 4           |
| Morus sp.                | 2       | 2                    | 2                       | 2           |
| ST30                     | 5       | 5                    | 5                       | 5           |
| Morus alba               | 4       | 4                    | 4                       | 4           |
| Nandina domestica        | 1       | 1                    | 1                       | 1           |
| ST31                     | 6       | 6                    | 6                       | 6           |
| Morus sp.                | 6       | 6                    | 6                       | 6           |
| ST62                     | 4       | 4                    | 4                       | 4           |
| Morus alba               | 4       | 4                    | 4                       | 4           |
| multiplex                | 5       | 96                   | 92                      | 93          |
|                        | 180     | 203                  | 669                     | 113         |
|                        | 16      | 16                   | 16                      | 16          |
|                        | 798     |                      |                         |             |
| ST10                    | 8       |                      | 8                       | 8           |
| Polygal myrtifolia       | 1       | 1                    | 1                       | 1           |
| Prunus domestica         | 3       | 3                    | 1                       | 4           |
| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|--------------------------------------|---------|----------------------|-------------------------|-------------|
|                                      | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total |
| Prunus persica                       | 3 |   |   |   |    |   |    |    |    |    |    |        | 3     |       |       | 3     |
| Prunus sp.                           | 2 |   |   |   |    |   |    |    |    |    |    |        | 2     |       |       | 2     |
| Quercus petraea                      |    |   |   |    |    |    |    |    |    |    |    |        | 1     |       |       | 1     |
| Salix alba                           |    |   |   |    |    |    |    |    |    |    |    |        | 1     |       |       | 1     |
| **ST15**                             | 3 |   |   |   |    | 3 |    |    |    |    |    |        | 3     |       |       | 3     |
| Prunus cerasifera                    | 3 |   |   |   |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| **ST22**                             | 3 |   |   |   |    | 3 |    |    |    |    |    |        | 1     |       |       | 4     |
| Ambrosia psilostachya                | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| Ambrosia trifida                     | 2 |   |   |   |    | 2 |    |    |    |    |    |        | 1     |       |       | 3     |
| **ST23**                             | 12|   |   |   |    | 12|    |    |    |    |    |        | 12    |       |       | 12    |
| Acer rubrum                          | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| Ambrosia trifida                     | 2 |   |   |   |    | 2 |    |    |    |    |    |        | 2     |       |       | 2     |
| Helianthus sp.                       | 3 |   |   |   |    | 3 |    |    |    |    |    |        | 3     |       |       | 3     |
| Iva annua                            | 2 |   |   |   |    | 2 |    |    |    |    |    |        | 2     |       |       | 2     |
| Quercus rubra                        | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| Ratibida columnifera                 | 2 |   |   |   |    | 2 |    |    |    |    |    |        | 2     |       |       | 2     |
| Solidago virgaurea                   | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| **ST24**                             | 5 |   |   |   |    | 5 |    |    |    |    |    |        | 3     |       |       | 8     |
| Cercis occidentalis                  | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| Liquidambar styraciflua              | 3 |   |   |   |    | 3 |    |    |    |    |    |        | 2     |       |       | 5     |
| Prunus dulcis                        | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| Ulmus crassifolia                   | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| **ST25**                             | 4 |   |   |   |    | 4 |    |    |    |    |    |        | 4     |       |       | 4     |
| Encelia farinosa                     | 4 |   |   |   |    | 4 |    |    |    |    |    |        | 4     |       |       | 4     |
| **ST26**                             | 2 |   |   |   |    | 12|    |    |    |    |    |        | 14    |       |       | 18    |
| Alnus rhombifolia                    | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| Prunus cerasifera                    | 2 |   |   |   |    | 2 |    |    |    |    |    |        | 1     |       |       | 3     |
| Prunus domestica                     | 2 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 3     |
| Prunus dulcis                        | 1 |   |   |   |    | 1 |    |    |    |    |    |        | 1     |       |       | 1     |
| Prunus persica                       |    |   |   |   |    |    |    |    |    |    |    |        | 1     |       |       | 1     |
### Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021

| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|---------------------------------------|---------|----------------------|-------------------------|-------------|
|                                       | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total | Total |
| Prunus sp.                            | 8  |     |    |    |    |    |    |    |    |    |    |         | 8     | 8     | 8     |       |       |
| Rubus fruticosus                      |    | 6   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| ST27                                  |    | 6   |    |    |    |    |    |    |    |    |    |         | 2     | 8     |       |       |       |
| Ginkgo biloba                         | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| Lagerstroemia sp.                     | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| Prunus cerasifera                     |    | 2   |    |    |    |    |    |    |    |    |    |         | 2     | 2     | 2     |       |       |
| Prunus dulcis                         | 2  | 2   |    |    |    |    |    |    |    |    |    |         |       | 3     | 3     |       |       |
| ST28                                  | 4  | 4   |    |    |    |    |    |    |    |    |    |         | 1     | 5     |       |       |       |
| Ambrosia trifida                      | 2  | 2   |    |    |    |    |    |    |    |    |    |         | 1     | 3     | 1     |       |       |
| Helianthus sp.                        | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| Iva annua                             | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| ST32                                  | 2  | 2   |    |    |    |    |    |    |    |    |    |         | 1     | 3     | 3     |       |       |
| Rubus fruticosus                      | 2  | 2   |    |    |    |    |    |    |    |    |    |         |       | 2     | 2     |       |       |
| Rubus sp.                             | 2  | 2   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| ST34                                  | 1  | 1   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| Prunus cerasifera                     | 1  | 1   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| ST35                                  | 1  | 1   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| Xanthium strumarium                   | 1  | 1   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| ST36                                  | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| Prunus cerasifera                     | 1  | 1   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| Prunus sp.                            | 1  | 1   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| ST37                                  | 2  | 2   |    |    |    |    |    |    |    |    |    |         |       | 2     | 2     |       |       |
| Lupinus aridorum                      | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| Lupinus villosus                      | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| ST38                                  | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| Platanus occidentalis                 | 1  | 1   |    |    |    |    |    |    |    |    |    |         |       | 1     | 1     |       |       |
| ST39                                  | 6  | 6   |    |    |    |    |    |    |    |    |    |         |       | 6     | 6     |       |       |
| Koelreuteria bipinnata                | 1  | 1   |    |    |    |    |    |    |    |    |    |         | 1     | 1     | 1     |       |       |
| Liquidambar styraciflua               | 4  | 4   |    |    |    |    |    |    |    |    |    |         |       | 4     | 4     |       |       |

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### Update of the Xylella spp. host plant database – systematic literature search up to 31 December 2021

#### X. fastidiosa subspecies/sequence type

|                | Natural | Artificial infection | Infection not specified | Grand total |
|----------------|---------|----------------------|-------------------------|-------------|
|                | AR BR CR EC FR HN IT MX PT ES US Unknown Total | | | |
| Prunus sp.     | 1 1 | 1 | | 1 |
| ST40 Prunus cerasifera | 4 4 | 1 1 | | 5 |
| Sambucus sp.   | 1 1 | 1 | | 1 |
| ST41 Prunus domestica | 2 2 | 1 | | 3 |
| Prunus salicina | 1 1 | 1 | | 2 |
| Prunus sp.     | 2 2 | 2 | | 2 |
| Ulmus americana | 2 2 | 2 | | 2 |
| Ulmus sp.      | 1 1 | 1 | | 1 |
| ST42 Ambrosia trifida | 2 2 | 1 | | 3 |
| Sapindus saponaria | 1 1 | 1 | | 1 |
| Vaccinium ashei | 6 6 | 6 | | 6 |
| Vaccinium corymbosum | 2 2 | 3 | | 3 |
| Vaccinium corymbosum × V. angustifolium hybrid | | | | |
| Vaccinium sp.  | 5 5 | 5 | | 5 |
| ST43 Vaccinium corymbosum | 5 5 | 2 | | 7 |
| Vaccinium corymbosum × V. angustifolium hybrid | | | | |
| Vaccinium sp.  | 5 5 | 5 | | 5 |
| ST44 Quercus palustris | 2 2 | 2 | | 2 |
| Quercus rubra | 1 1 | 1 | | 1 |
| ST45 Acer griseum | 6 6 | 6 | | 6 |
| Ampelopsis cordata | 1 1 | 1 | | 1 |
| Cercis canadensis | 3 3 | 3 | | 3 |
| Gleditsia triacanthos | 1 1 | 1 | | 1 |
### Update of the Xylella spp. host plant database – systematic literature search up to 31 December 2021

| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|---------------------------------------|---------|----------------------|-------------------------|-------------|
|                                       | AR      | BR                   | CR  | EC | FR | HN | IT  | MX | PT | ES | US | Unknown | Total | | | | | | | | | | | | | |
| **ST46**                              |         |                      |    |    |    |    |     |    |    |    |    |        | 3     | | | | | | | | | | | | | |
| Celtis occidentalis                    | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Chionanthus sp.                        | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Prunus armeniaca                      | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| **ST48**                              |         |                      |    |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Sapindus saponaria                    | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| **ST49**                              |         |                      |    |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Prunus sp.                            | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| **ST50**                              |         |                      |    |    |    |    |     |    |    |    |    |        | 2     | | | | | | | | | | | | | |
| Fraxinus americana                    | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Fraxinus sp.                          | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| **ST51**                              |         |                      |    |    |    |    |     |    |    |    |    |        | 3     | | | | | | | | | | | | | |
| Periwinkle (common name)              | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Vinca sp.                             | 2       | 2                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| **ST58**                              |         |                      |    |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Ambrosia trifida                      | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| **ST6**                               | 11      |                      |    |    |    |    |     |    |    |    |    |        | 173   | | | | | | | | | | | | | |
| Acacia saligna                        | 3       | 3                    |     |    |    |    |     |    |    |    |    |        | 3     | | | | | | | | | | | | | |
| Asparagus acutifolius                 | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Calicotome spinose                    | 4       | 4                    |     |    |    |    |     |    |    |    |    |        | 4     | | | | | | | | | | | | | |
| Catharanthus roseus                   |         |                      |    |    |    |    |     |    |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Cistus albidus                        | 3       | 3                    |     |    |    |    |     |    |    |    |    |        | 3     | | | | | | | | | | | | | |
| Cistus monspeliensis                  | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Cistus salvifolius                    | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Genista scorpius                      | 1       | 1                    |     |    |    |    |     |    |    |    |    |        | 1     | | | | | | | | | | | | | |
| Helichrysum italicum                  | 9       | 9                    |     |    |    |    |     |    |    |    |    |        | 9     | | | | | | | | | | | | | |
| Helichrysum stoechas                  | 3       | 3                    |     |    |    |    |     |    |    |    |    |        | 3     | | | | | | | | | | | | | |
| Laurus nobilis                        | 2       | 2                    |     |    |    |    |     |    |    |    |    |        | 2     | | | | | | | | | | | | | |
| Lavandula angustifolia                | 2       | 2                    |     |    |    |    |     |    |    |    |    |        | 2     | | | | | | | | | | | | | |
| Lavandula dentate                     | 3       | 3                    |     |    |    |    |     |    |    |    |    |        | 3     | | | | | | | | | | | | | |

**Note:** Total numbers are calculated based on the data provided.
## Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021

| *X. fastidiosa* subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|-----------------------------------------|---------|----------------------|------------------------|-------------|
|                                        | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total | Total | Total | Total |
|-----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|------|------|------|------|------|------|
| **Lavandula latifolia**                 | 1 |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Medicago sativa**                     |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **Nicotiana tabacum**                   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **Olea europaea**                       | 2 | 2 |   |   |   |   |   |   |   |   |   |      | 31   |      |      |      |      |      |      |      |
| **Phagnalon saxatile**                  | 4 |   |   |   |   |   |   |   |   |   |   |      | 4    |      |      |      |      |      |      |      |
| **Polygala myrtifolia**                 | 2 | 5 |   |   |   |   |   |   |   |   |   |      | 7    |      |      |      |      |      |      |      |
| **Prunus armeniaca**                    | 5 |   |   |   |   |   |   |   |   |   |   |      | 5    |      |      |      |      |      |      |      |
| **Prunus cerasifera**                   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **Prunus domestica**                    | 5 |   |   |   |   |   |   |   |   |   |   |      | 5    |      |      |      |      |      |      |      |
| **Prunus dulcis**                       | 29| 12|   |   |   |   |   |   |   |   |   |      | 41   |      |      |      |      |      |      |      |
| **Quercus petraea**                     |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **Rhamnus alaternus**                   | 6 |   |   |   |   |   |   |   |   |   |   |      | 6    |      |      |      |      |      |      |      |
| **Rubus ursinus**                       |   |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Salix alba**                          |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **Salvia rosmarinus**                   | 5 |   |   |   |   |   |   |   |   |   |   |      | 5    |      |      |      |      |      |      |      |
| **Spartium junceum**                    | 9 |   |   |   |   |   |   |   |   |   |   |      | 9    |      |      |      |      |      |      |      |
| **Ulex parviflorus**                    | 1 |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Vitis vinifera**                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **ST6 and ST7**                         |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **Cistus monspeliensis**                |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |      |      |      |      |
| **ST6 and/or ST7**                      | **76** |   |   |   |   |   |   |   |   |   |   |      | **76** |      |      |      |      |      |      |      |
| **Acacia dealbata**                     | 1 |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Acer pseudoplatanus**                 | 2 |   |   |   |   |   |   |   |   |   |   |      | 2    |      |      |      |      |      |      |      |
| **Anthyllis hermanniae**                | 1 |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Artemisia arborescens**               | 2 |   |   |   |   |   |   |   |   |   |   |      | 2    |      |      |      |      |      |      |      |
| **Asparagus acutifolius**               | 2 |   |   |   |   |   |   |   |   |   |   |      | 2    |      |      |      |      |      |      |      |
| **Calicotome villosa**                  | 1 |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Cercis siliquastrum**                 | 1 |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Cistus creticus**                     | 1 |   |   |   |   |   |   |   |   |   |   |      | 1    |      |      |      |      |      |      |      |
| **Cistus monspeliensis**                | 2 |   |   |   |   |   |   |   |   |   |   |      | 2    |      |      |      |      |      |      |      |

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Update of the Xylella spp. host plant database – systematic literature search up to 31 December 2021

| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|---------------------------------------|---------|---------------------|------------------------|-------------|
|                                       | AR      | BR                  | CR                     | EC          | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total |
| Cistus salvifolius                    | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Coronilla valentina                   | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Cytisus scoparius                     | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Cytisus sp.                           | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Cytisus villosus                      | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Eurypops chrysanthemoides             | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Genista corsica                       | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Genista ephedroides                   | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Genista × spachiana                   | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Hebe sp.                              | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Helichrysum italicum                 | 3       |                     |                        |             |    |    |    |    |    |    |    | 3       | 3     |       |       |
| Lavandula angustifolia                | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Lavandula dentate                     | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Lavandula sp.                         | 3       |                     |                        |             |    |    |    |    |    |    |    | 3       | 3     |       |       |
| Lavandula stoechas                    | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Lavandula × heterophylla              | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Lavandula × intermedia                | 3       |                     |                        |             |    |    |    |    |    |    |    | 3       | 3     |       |       |
| Medicago sativa                       | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Medicago excelosa                     | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Myrtus communis                       | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Pelargonium graveolens                | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Pelargonium sp.                       | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Phagnalon saxatile                    | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Polygala myrtifolia                   | 7       |                     |                        |             |    |    |    |    |    |    |    | 7       | 7     |       |       |
| Polygala sp.                          | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Prunus cerasifera                     | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Prunus dulcis                         | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Quercus suber                         | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| Rosa canina                           | 1       |                     |                        |             |    |    |    |    |    |    |    | 1       | 1     |       |       |
| Salvia rosmarinus                     | 2       |                     |                        |             |    |    |    |    |    |    |    | 2       | 2     |       |       |
| X. fastidiosa subspecies/sequence type | Natural | Artificial infection Total | Infection not specified Total | Grand total |
|---------------------------------------|---------|---------------------------|------------------------------|-------------|
|                                      | AR  | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total |                      |                      |             |
| Spartium junceum                     |     |    |    |    | 3  |    |    |    |    |    |    |    |    | 3  |                      |                      | 3           |
| Westringia fruticosa                 |     |    |    |    | 1  |    |    |    |    |    |    |    |    | 1  |                      |                      | 1           |
| **ST63**                             | 1   |    |    |    |    |    |    |    |    |    |    |    | 1  | 1  |                      |                      |             |
| Prunus domestica                     | 1   |    |    |    |    |    |    |    |    |    |    |    | 1  | 1  |                      |                      |             |
| **ST67**                             | 2   |    |    |    | 2  |    |    |    |    |    |    |    | 4  | 6  |                      |                      |             |
| Prunus domestica                     | 2   |    |    |    |    |    |    |    |    |    |    |    | 2  | 2  |                      |                      |             |
| Prunus salicina                      |     |    |    |    |    |    |    |    |    |    |    |    | 4  | 4  |                      |                      |             |
| **ST7**                              | 7   | 93 | 8  | 24 | 132| 23 |    |    |    |    |    |    | 155| 155|                      |                      |             |
| Acacia longifolia                   | 2   |    |    |    | 2  |    |    |    |    |    |    |    | 2  |    |                      |                      |             |
| Acacia melanoxylon                  | 2   |    |    |    | 2  |    |    |    |    |    |    |    | 2  |    |                      |                      |             |
| Adenocarpus lainzii                 | 2   |    |    |    | 2  |    |    |    |    |    |    |    | 2  |    |                      |                      |             |
| Artemisia arborescens               | 2   |    |    |    | 2  |    |    |    |    |    |    |    | 2  |    |                      |                      |             |
| Artemisia sp.                       | 2   |    |    |    | 2  |    |    |    |    |    |    |    | 2  |    |                      |                      |             |
| Asparagus acutifolius               | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Athyrium filix-femina               | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Berberis thunbergii                 | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Calluna vulgaris                    | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Catharanthus roseus                 |     |    |    |    |    |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Cistus inflatus                     | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Cistus salvifolius                  | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Coprosma repens                    | 3   |    |    |    | 3  |    |    |    |    |    |    |    | 3  |    |                      |                      |             |
| Cytisus scoparius                   | 3   |    |    |    | 3  |    |    |    |    |    |    |    | 3  |    |                      |                      |             |
| Dimorphotheca ecklonis              | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Dodonaea viscosa                   | 2   |    |    |    | 2  |    |    |    |    |    |    |    | 2  |    |                      |                      |             |
| Echium plantagineum                 | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Elaeagnus × submacrophylla           | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Erica cinerea                      | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Erigeron canadensis                | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Erodium moschatum                   | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| Euryops chrysanthemoides            | 1   |    |    |    | 1  |    |    |    |    |    |    |    | 1  |    |                      |                      |             |
| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|----------------------------------------|---------|-----------------------|-------------------------|-------------|
|                                        | AR      | BR       | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total | Total |
| Frangula alnus                        | 1       | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Gazania rigens                        | 1       | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Genista corsica                       | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Genista tridentata                    | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Hebe sp.                              | 2       | 2        |    |    |    |    |    |    |    |    |    |         | 2     |       | 2    |       | 2    |
| Hibiscus syriacus                     | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Hypericum perforatum                  | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Ilex aquifolium                       | 2       | 2        |    |    |    |    |    |    |    |    |    |         | 2     |       | 2    |       | 2    |
| Laurus nobilis                        | 1       | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Lavandula angustifolia                | 2       | 2        |    |    |    |    |    |    |    |    |    |         | 2     |       | 2    |       | 2    |
| Lavandula dentate                     | 4       | 4        |    |    |    |    |    |    |    |    |    |         | 4     |       | 4    |       | 4    |
| Lavandula sp.                         | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Lavandula stoechas                    | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Lavatera cretica                      | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Magnolia grandiflora                  | 3       | 3        |    |    |    |    |    |    |    |    |    |         | 3     |       | 3    |       | 3    |
| Magnolia × soulangeana                | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Medicago sativa                       | 2       | 2        |    |    |    |    |    |    |    |    |    |         | 2     |       | 2    |       | 2    |
| Metrosideros excels                   | 2       | 2        |    |    |    |    |    |    |    |    |    |         | 2     |       | 2    |       | 2    |
| Metrosideros sp.                      | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Myrtus communis                       | 2       | 2        |    |    |    |    |    |    |    |    |    |         | 2     |       | 2    |       | 2    |
| Nerium oleander                       | 1       | 1        |    |    |    |    |    |    |    |    |    |         | 2     |       | 1    |       | 3    |
| Nicotiana tabacum                     |          |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Olea europaea                          | 1       | 7        |    |    |    |    |    |    |    |    |    |         | 8     |       | 4    |       | 12   |
| Olea sp.                              | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Pelargonium graveolens                | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Plantago lanceolata                   | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Polygala myrtifolia                   | 5       | 3        |    |    |    |    |    |    |    |    |    |         | 8     |       | 2    |       | 10   |
| Prunus avium                          |          |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Prunus cerasifera                     |          |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1    |       | 1    |
| Prunus domestica                      |          |          |    |    |    |    |    |    |    |    |    |         | 2     |       | 2    |       | 2    |
### X. fastidiosa subspecies/sequence type

| Host Plant | Natural | Artificial infection | Infection not specified | Grand total |
|------------|---------|----------------------|-------------------------|-------------|
|            | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total |
| Prunus dulcis | 5 | 9 | 14 | 4 | 18 |
| Prunus laurocerasus | 1 | 1 | 1 | 1 |
| Prunus persica | 1 | 1 | 1 |
| Prunus sp. | 1 | 1 |
| Pteridium aquilinum | 1 | 1 |
| Quercus petraea | 2 | 2 | 1 | 1 |
| Quercus robur | 1 | 2 | 3 | 3 |
| Quercus rubra | 3 | 3 |
| Quercus suber | 3 | 3 |
| Rosa sp. | 1 | 1 |
| Rubus fruticosus | 2 | 2 |
| Rubus ulmifolius | 2 | 2 |
| Salix alba | 3 | 3 |
| Salvia mellifera | 1 | 1 | 1 |
| Salvia officinalis | 2 | 2 |
| Salvia rosmarinus | 1 | 1 |
| Sambucus nigra | 1 | 1 |
| Santolina chamaecyparissus | 3 | 3 |
| Spartium junceum | 1 | 1 |
| Strelitzia reginiae | 1 | 1 |
| Ulex europaeus | 2 | 2 |
| Ulex minor | 2 | 2 |
| Ulex sp. | 2 | 2 |
| Vinca major | 2 | 2 |
| Vinca sp. | 1 | 1 |
| Vitis vinifera | 1 | 1 |
| ST79 | 1 | 1 | 1 |
| Polygala myrtifolia | 1 | 1 |
| ST8 | 13 | 13 | 13 |
| Alnus rhombifolia | 1 | 1 | 1 |
| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|--------------------------------------|---------|---------------------|-------------------------|-------------|
|                                      | AR  | BR  | CR  | EC  | FR  | HN  | IT  | MX  | PT  | ES  | US  | Known | Total |         |         |         | Total |         |         |
| Carya illinoinensis                  |     |     |     |     |     |     |     |     |     |     |     | 2     | 2     |         |         |         |       | 2       |         |
| Platanus occidentalis                |     |     |     |     |     |     |     |     |     |     |     | 7     | 7     |         |         |         |       | 7       |         |
| Platanus sp.                         |     |     |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Quercus palustris                    |     |     |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Ulmus americana                      |     |     |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| **ST81**                             | 76  |     |     |     |     |     |     |     |     |     |     | 1     | 77    | 16     |         |         |         |       | **93**  |         |
| Acacia saligna                       |     | 1   |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Acacia sp.                           |     | 2   |     |     |     |     |     |     |     |     |     | 2     | 2     |         |         |         |       | 2       |         |
| Cistus albidus                        |     | 2   |     |     |     |     |     |     |     |     |     | 2     | 2     |         |         |         |       | 2       |         |
| Clematis cirrhosa                    |     | 2   |     |     |     |     |     |     |     |     |     | 2     | 2     |         |         |         |       | 2       |         |
| Ficus carica                         |     | 7   |     |     |     |     |     |     |     |     |     | 7     | 7     |         |         |         |       | 7       |         |
| Fraxinus angustifolia                |     | 3   |     |     |     |     |     |     |     |     |     | 3     | 3     |         |         |         |       | 3       |         |
| Genista valdes-bermejoi              |     | 1   |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Helichrysum stoechas                 |     | 1   |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Lavandula angustifolia               |     | 3   |     |     |     |     |     |     |     |     |     | 3     | 3     |         |         |         |       | 3       |         |
| Lavandula dentate                    |     | 3   |     |     |     |     |     |     |     |     |     | 3     | 3     |         |         |         |       | 3       |         |
| Nerium oleander                      |     | 1   |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Olea europaea                         |     | 8   | 1   |     |     |     |     |     |     |     |     | 9     | 15    |         |         |         |       | 24      |         |
| Olea europaea subsp. sylvestris      |     | 5   |     |     |     |     |     |     |     |     |     | 5     | 5     |         |         |         |       | 5       |         |
| Phillyrea angustifolia                |     | 2   |     |     |     |     |     |     |     |     |     | 2     | 2     |         |         |         |       | 2       |         |
| Polygala myrtifolia                  |     | 5   |     |     |     |     |     |     |     |     |     | 5     | 5     |         |         |         |       | 5       |         |
| Prunus domestica                     |     | 4   |     |     |     |     |     |     |     |     |     | 4     | 4     |         |         |         |       | 4       |         |
| Prunus dulcis                        |     | 13  |     |     |     |     |     |     |     |     |     | 13    | 1     |         |         |         |       | 14      |         |
| Rhamnus alaternus                    |     | 4   |     |     |     |     |     |     |     |     |     | 4     | 4     |         |         |         |       | 4       |         |
| Salvia officinalis                   |     | 2   |     |     |     |     |     |     |     |     |     | 2     | 2     |         |         |         |       | 2       |         |
| Salvia rosmarinus                    |     | 4   |     |     |     |     |     |     |     |     |     | 4     | 4     |         |         |         |       | 4       |         |
| Santolina chamaecyparissus           |     | 1   |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Santolina magnifica                  |     | 1   |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| Spartium junceum                     |     | 1   |     |     |     |     |     |     |     |     |     | 1     | 1     |         |         |         |       | 1       |         |
| **ST82**                             |     | 2   |     |     |     |     |     |     |     |     |     | 2     | 2     |         |         |         |       | 2       |         |
| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|---------------------------------------|---------|---------------------|------------------------|-------------|
|                                       | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total |
| Vaccinium ashei                       | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| ST83                                  | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Vaccinium ashei                       | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| ST87                                  | 92 |     |    |    |    |    |    |    |    |    |    |        | 92    | 1     |       | 93    |
| Acacia dealbata                       | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Asparagus acutifolius                 | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Calicotome spinose                    | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Calicotome villosa                    | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Cercis siliquastrum                   | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Cistus monspeliensis                  | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Cistus salviifolius                   | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Cistus sp.                            | 5  | 5  | 5  |     |    |    |    |    |    |    |    |        | 5     |       |       | 5     |
| Clematis vitalba                     | 1  | 1  | 1  |     |    |    |    |    |    |    |    |        | 1     |       |       | 1     |
| Cytisus scoparius                     | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Elaeagnus angustifolia                | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Ficus carica                          | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Helichrysum italicum                 | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Helichrysum sp.                      | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Laurus nobilis                        | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Lavandula angustifolia                | 3  | 3  | 3  |     |    |    |    |    |    |    |    |        | 3     |       |       | 3     |
| Lavandula dentate                    | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Lavandula sp.                         | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Lonicera implexa                     | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Myrtus communis                       | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Nerium oleander                      | 1  | 1  | 1  |     |    |    |    |    |    |    |    |        | 1     |       |       | 1     |
| Olea europaea                         |     |    |    |     |    |    |    |    |    |    |    | 1        |       |       | 1     |       |
| Phagnalon saxatile                   | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Phillyrea latifolia                   | 2  | 2  | 2  |     |    |    |    |    |    |    |    |        | 2     |       |       | 2     |
| Polygala myrtifolia                  | 8  | 8  | 8  |     |    |    |    |    |    |    |    |        | 8     |       |       | 8     |
| Prunus dulcis                         | 8  | 8  | 8  |     |    |    |    |    |    |    |    |        | 8     |       |       | 8     |
| X. fastidiosa subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|----------------------------------------|---------|---------------------|------------------------|-------------|
|                                        | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total |
| Rhamnus alaternus                      | 5 | 5 |     |   |     |     |     |     |     |     |     |     |         | 5     |     |     | 5     |
| Rosa sp.                               | 1 | 1 |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Salvia rosmarinus                      | 5 | 5 |     |   |     |     |     |     |     |     |     |     |         | 5     |     |     | 5     |
| Scabiosa sp.                           | 1 | 1 |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Spartium junceum                       | 8 | 8 |     |   |     |     |     |     |     |     |     |     |         | 8     |     |     | 8     |
| **ST9**                                | 28 |     |     |   |     |     |     |     |     |     |     |     | 4       | 32    |     |     |       |
| Polygala myrtifolia                    | 1 |     |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Quercus cocinea                        | 2 | 2 |     |   |     |     |     |     |     |     |     |     |         | 2     |     |     | 2     |
| Quercus falcata                        | 1 | 1 | 1    |   |     |     |     |     |     |     |     |     |         | 2     |     |     | 2     |
| Quercus laevis                         | 2 | 2 |     |   |     |     |     |     |     |     |     |     |         | 2     |     |     | 2     |
| Quercus nigra                          | 1 | 1 |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Quercus palustris                      | 11 | 11 |     |   |     |     |     |     |     |     |     |     |         | 11    |     |     | 11    |
| Quercus petraea                        | 1 |     |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Quercus phellos                        | 1 | 1 |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Quercus robur                          | 1 | 1 |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Quercus rubra                          | 5 | 5 |     |   |     |     |     |     |     |     |     |     |         | 5     |     |     | 5     |
| Quercus shumardii                      | 1 | 1 |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Quercus sp.                            | 3 | 3 |     |   |     |     |     |     |     |     |     |     |         | 3     |     |     | 3     |
| Rubus fruticosus                       |     |     |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| **pauca**                              | 6 | 127 | 8 | 4 | 4 | 443 | 29 | 3 | 624 | 246 | 23 | 893 |
| **ST11**                               | 52 |     |     |   |     |     |     |     |     |     |     |     | 14      | 3     |     |     | 69    |
| Catharanthus roseus                    |     |     |     |   |     |     |     |     |     |     |     |     |         | 2     |     |     | 2     |
| Citrus sinensis                        | 22 |     |     |   |     |     |     |     |     |     |     |     | 4       | 3     |     |     | 29    |
| Citrus sp.                             | 29 |     |     |   |     |     |     |     |     |     |     |     |         | 29    |     |     |       |
| Coffea arabica                         |     |     |     |   |     |     |     |     |     |     |     |     |         | 4     |     |     | 4     |
| Coffea sp.                             |     |     |     |   |     |     |     |     |     |     |     |     |         | 1     |     |     | 1     |
| Nicotiana tabacum                      |     |     |     |   |     |     |     |     |     |     |     |     |         | 4     |     |     | 4     |
| **ST12**                               | 3 |     |     |   |     |     |     |     |     |     |     |     | 3       | 3     |     |     | 6     |
| Citrus sinensis                        | 2 |     |     |   |     |     |     |     |     |     |     |     | 2       | 2     |     |     | 4     |
| Citrus sp.                             | 1 |     |     |   |     |     |     |     |     |     |     |     | 1       | 1     |     |     | 2     |

**Update of the Xylella spp. host plant database – systematic literature search up to 31 December 2021**
## Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021

| *X. fastidiosa* subspecies/sequence type | Natural | Artifical infection | Infection not specified | Grand total |
|------------------------------------------|---------|---------------------|-------------------------|-------------|
|                                           | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total |
| **ST13**                                  |   |   |    |    |    |    |    |    |    |    |    |        | 12    | 88    | 3     | 103   |
| Arabidopsis thaliana                     |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 1     |
| Bidens pilosa                            |   |   |    |    |    |    |    |    |    |    |    |        | 3     | 3     |       | 3     |
| Catharanthus roseus                      |   |   |    |    |    |    |    |    |    |    |    |        | 14    | 14    |       | 28    |
| Citrus reticulata                        |   |   |    |    |    |    |    |    |    |    |    |        | 3     | 3     |       | 6     |
| Citrus sinensis                          |   |   |    |    |    |    |    |    |    |    |    |        | 6     | 22    | 3     | 31    |
| Citrus sp.                               |   |   |    |    |    |    |    |    |    |    |    |        | 6     | 21    |       | 27    |
| Medicago sativa                          |   |   |    |    |    |    |    |    |    |    |    |        | 3     | 3     |       | 6     |
| Nicotiana clevelandii                    |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Nicotiana tabacum                        |   |   |    |    |    |    |    |    |    |    |    |        | 12    | 12    |       | 24    |
| Ocimum basilicum                         |   |   |    |    |    |    |    |    |    |    |    |        | 3     | 3     |       | 6     |
| Periwinkle (common name)                |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Solanum americanum                      |   |   |    |    |    |    |    |    |    |    |    |        | 4     | 4     |       | 8     |
| **ST14**                                  |   |   |    |    |    |    |    |    |    |    |    |        | 8     | 4     |       | 12    |
| Coffea arabica                           |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Coffea sp.                               |   |   |    |    |    |    |    |    |    |    |    |        | 6     | 2     |       | 8     |
| Prunus domestica                         |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Prunus sp.                               |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| **ST16**                                  |   |   |    |    |    |    |    |    |    |    |    |        | 40    | 15    | 1      | 56    |
| Citrus sinensis                          |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Coffea arabica                           |   |   |    |    |    |    |    |    |    |    |    |        | 2     | 7     |       | 9     |
| Coffea sp.                               |   |   |    |    |    |    |    |    |    |    |    |        | 17    | 17    |       | 34    |
| Nicotiana tabacum                        |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Olea europaea                            |   |   |    |    |    |    |    |    |    |    |    |        | 21    | 1     |       | 22    |
| **ST53**                                  |   |   |    |    |    |    |    |    |    |    |    |        | 21    | 1     |       | 22    |
| Acacia saligna                           |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Amaranthus retroflexus                   |   |   |    |    |    |    |    |    |    |    |    |        | 3     | 3     |       | 6     |
| Asparagus acutifolius                    |   |   |    |    |    |    |    |    |    |    |    |        | 3     | 3     |       | 6     |
| Catharanthus roseus                      |   |   |    |    |    |    |    |    |    |    |    |        | 1     | 1     |       | 2     |
| Chenopodium album                        |   |   |    |    |    |    |    |    |    |    |    |        | 5     | 1     |       | 6     |

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## Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021

| *X. fastidiosa* subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|----------------------------------------|---------|----------------------|-------------------------|-------------|
|                                        | AR      | BR       | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total | Grand total |
| Cistus creticus                        | 1       |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       | 1             |
| Coffea arabica                         | 2       |          |    |    |    |    |    |    |    |    |    |         | 1     | 3     | 1     | 4     |               |
| Coffea sp.                             |         | 1        | 1  |    |    |    |    |    |    |    |    |         | 1     |   1   | 1     | 2     | 4             |
| Dimorphotheca fruticosa                |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Dodonaeas viscosa                      | 2       |          |    |    |    |    |    |    |    |    |    |         | 2     |       | 2     |       |               |
| Eremophila maculata                    |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Erigeron bonariensis                   | 3       |          |    |    |    |    |    |    |    |    |    |         | 3     |       | 3     |       |               |
| Erigeron sp.                           |         | 6        | 6  |    |    |    |    |    |    |    |    |         | 6     |       | 6     |       |               |
| Erigeron sumatrensis                   |         | 1        | 1  |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Euphorbia chamaesyce                    | 2       |          |    |    |    |    |    |    |    |    |    |         | 2     |       | 2     |       |               |
| Euphorbia terracina                    |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Grevillea juniperina                   |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Hebe sp.                               |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Heliotropium europaeum                 |         | 3        | 3  |    |    |    |    |    |    |    |    |         | 3     |       | 3     |       |               |
| Jasminum azoricum                     |         |          |    |    |    |    |    |    |    |    |    |         | 2     |       | 2     |       |               |
| Laurus nobilis                         |         | 2        | 2  |    |    |    |    |    |    |    |    |         | 2     |       | 2     |       |               |
| Lavandula angustifolia                 |         | 3        | 3  |    |    |    |    |    |    |    |    |         | 3     |       | 3     |       |               |
| Lavandula sp.                          |         | 1        | 1  |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Lavandula stoechas                     |         | 2        | 2  |    |    |    |    |    |    |    |    |         | 2     |       | 2     |       |               |
| Medicago sativa                        |         |          |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Myoporum insulare                      |         | 1        | 1  |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Myrtus communis                        |         | 1        | 1  |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Nerium oleander                        |         | 5        | 18 | 23 | 8  | 4  | 35 |    |    |    |    |         | 5     | 8     | 4     | 35    |               |
| Nicotiana tabacum                      |         |          |    |    |    |    |    |    |    |    |    |         | 5     |       | 5     |       |               |
| Olea europaea                          |         | 1        | 316| 317| 52 |     |     |     |     |     |     |         | 317   | 52    | 369   |       |               |
| Pelargonium fragrans                   |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Pelargonium sp.                        |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Periwinkle (common name)               |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
| Phillyrea latifolia                    |         | 2        | 2  |    |    |    |    |    |    |    |    |         | 2     |       | 2     |       |               |
| Pistacia vera                          |         | 1        |    |    |    |    |    |    |    |    |    |         | 1     |       | 1     |       |               |
### X. fastidiosa subspecies/sequence type

|                      | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Artificial infection | Infection not specified | Grand total |
|----------------------|----|----|----|----|----|----|----|----|----|----|----|---------|-------|-----------------------|------------------------|-----------|
| Polygala myrtifolia  | 1  | 21 |    |    |    |    |    |    |    |    |    |         | 22    | 9                     | 31                     |           |
| Prunus avium         |    |    |    |    |    |    |    |    |    |    |    |         | 9     | 4                     | 13                     |           |
| Prunus domestica     |    |    |    |    |    |    |    |    |    |    |    |         | 9     | 4                     | 13                     |           |
| Prunus persica       | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Quercus ilex         | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Quercus petraea      |    |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Rhamnus alaternus    | 4  |    |    |    |    |    |    |    |    |    |    |         | 4     | 4                     | 4                      |           |
| Salix alba           |    |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Salvia rosmarinus    | 3  |    |    |    |    |    |    |    |    |    |    |         | 3     | 3                     | 3                      |           |
| Salvia sp.           | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Spartium junceum     | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Vinca minor          | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Vitis vinifera       |    |    |    |    |    |    |    |    |    |    |    |         | 5     | 5                     | 5                      |           |
| Westringia fruticosa | 4  |    |    |    |    |    |    |    |    |    |    |         | 4     | 4                     | 4                      |           |
| Westringia glabra    | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| **ST64**             | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Citrus sinensis      | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| **ST65**             | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 2                     | 3                      |           |
| Catharanthus roseus  |    |    |    |    |    |    |    |    |    |    |    |         | 2     | 2                     | 2                      |           |
| Citrus sinensis      | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| **ST66**             | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Coffea arabica       | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| **ST68**             | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| Coffea arabica       |    |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| **ST69**             | 5  |    |    |    |    |    |    |    |    |    |    |         | 5     | 1                     | 6                      |           |
| Citrus sinensis      | 4  |    |    |    |    |    |    |    |    |    |    |         | 4     | 1                     | 5                      |           |
| Olea europaea        | 1  |    |    |    |    |    |    |    |    |    |    |         | 1     | 1                     | 1                      |           |
| **ST70**             | 2  |    |    |    |    |    |    |    |    |    |    |         | 2     | 2                     | 2                      |           |
| Catharanthus roseus  |    |    |    |    |    |    |    |    |    |    |    |         | 2     | 2                     | 2                      |           |
### X. fastidiosa subspecies/sequence type

| Plant Species                  | AR | BR | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total |
|--------------------------------|----|----|----|----|----|----|----|----|----|----|----|---------|-------|
| **Natural**                    |    |    |    |    |    |    |    |    |    |    |    |         |       |
| Hibiscus fragilis              | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Hibiscus rosa-sinensis         | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Hibiscus sp.                   | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 2     |
| ST71                           | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Prunus domestica               | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| ST73                           |    | 1  |    |    |    |    |    |    |    |    |    | 4       | 5     |
| Catharanthus roseus            | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Coffea arabica                 |    | 1  |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Nerium oleander                | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Nicotiana tabacum              | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Polygala myrtifolia            |    |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| **ST73 and ST53**              | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Coffea arabica                 |    | 1  |    |    |    |    |    |    |    |    |    | 1       | 1     |
| **ST74**                       |    | 4  |    |    |    |    |    |    |    |    |    | 4       | 4     |
| Coffea arabica                 |    | 4  |    |    |    |    |    |    |    |    |    | 4       | 4     |
| ST78                           | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Prunus dulcis                  | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| **ST80**                       |    | 29 |    |    |    |    |    |    |    |    |    | 29      | 44    |
| Acacia saligna                 | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Acacia sp.                     | 2  |    |    |    |    |    |    |    |    |    |    | 2       | 2     |
| Cistus albidus                 | 3  |    |    |    |    |    |    |    |    |    |    | 3       | 3     |
| Lavandula angustifolia         | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Lavandula dentate             | 3  |    |    |    |    |    |    |    |    |    |    | 3       | 3     |
| Olea europaea                  | 4  |    |    |    |    |    |    |    |    |    |    | 4       | 15    |
| Olea europaea subsp. sylvestris|    | 3  |    |    |    |    |    |    |    |    |    | 3       | 3     |
| Polygala myrtifolia            | 3  |    |    |    |    |    |    |    |    |    |    | 3       | 3     |
| Prunus dulcis                  | 4  |    |    |    |    |    |    |    |    |    |    | 4       | 4     |
| Salvia officinalis             | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
| Salvia rosmarinus              | 3  |    |    |    |    |    |    |    |    |    |    | 3       | 3     |
| Ulex parviflorus               | 1  |    |    |    |    |    |    |    |    |    |    | 1       | 1     |
### Update of the *Xylella* spp. host plant database – systematic literature search up to 31 December 2021

| *X. fastidiosa* subspecies/sequence type | Natural | Artificial infection | Infection not specified | Grand total |
|-----------------------------------------|---------|----------------------|-------------------------|-------------|
|                                         | AR      | BR       | CR | EC | FR | HN | IT | MX | PT | ES | US | Unknown | Total | Total | Total | Total |
| ST84                                    | 3       |          |    |    |    |    |    |    |    |    |    |          | 3     |       |      |      |
| Olea europaea                           | 3       |          |    |    |    |    |    |    |    |    |    |          | 3     |       |      |      |
| ST85                                    | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Olea europaea                           | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| ST86                                    | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Olea europaea                           | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| sandyi                                  | 1       | 1        | 1  |    |    |    |    |    |    |    |    |          | 2     | 9     | 1    | 38    |
| ST5                                     | 24      |          |    |    |    |    |    |    |    |    |    |          | 24    | 4     | 28   | 28    |
| Hemerocallis sp.                        | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Jacaranda mimosifolia                   | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Magnolia grandiflora                    | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Nerium oleander                         | 21      | 21       |    |    |    |    |    |    |    |    |    |          | 22    |       |      |      |
| Prunus dulcis                           | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Vinca major                             | 2       |          |    |    |    |    |    |    |    |    |    |          | 2     |       |      |      |
| ST72                                    | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     | 2     | 5    | 8     |
| Coffea arabica                          | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     | 1     | 1    | 3     |
| Coffea sp.                              | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Nerium oleander                         | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Olea europaea                           | 3       |          |    |    |    |    |    |    |    |    |    |          | 3     |       |      |      |
| ST76                                    | 1       | 1        |    |    |    |    |    |    |    |    |    |          | 2     |       |      |      |
| Coffea sp.                              | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Polygala myrtifolia                     | 1       |          |    |    |    |    |    |    |    |    |    |          | 1     |       |      |      |
| Grand Total                             | 6       | 132      | 4  | 101 | 1  | 535 | 20 | 93 | 279 | 376 | 4  | 1585    | 545   | 49    | 2179 |       |
Appendix E – References included in this update

List of the 29 references included in this sixth update of the Xylella spp. host plant database. Informative data listed in Table 5 were extracted from those references and added to the database.

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Annex A – Links to data and interactive reports

Data are available as interactive reports on the Microstrategy platform at the following link: https://www.efsa.europa.eu/en/microstrategy/xylella

Raw data and related metadata are published in Zenodo in the EFSA Knowledge Junction community, this report refers to Version 6 (https://doi.org/10.5281/zenodo.1339343).