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## Update of the *Xylella* spp. host plant database – systematic literature search up to 30 June 2022

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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 updates a database of host plant species of *Xylella* spp. The current mandate covers the period 2021–2026. This report is related to the seventh version of the database published in Zenodo in the EFSA Knowledge Junction community, covering literature published from 1 January 2022 up to 30 June 2022, and recent Europhyt outbreak notifications. Informative data have been extracted from 30 selected publications. Fifteen new host plants were identified and added to the database. Those plant species were reported from Brazil, France, Italy, Portugal and Spain, and infected by subsp. *multiplex*, *pauca* or unknown (i.e. not reported). No additional data were retrieved for *X. taiwanensis*. Two new STs (namely ST88 and ST89) belonging to subspecies *multiplex* were identified in host plants in natural conditions, and new information on the tolerant/resistant response of plant species to *X. fastidiosa* infection were added to the database. The overall number of *Xylella* spp. host plants determined with at least two different detection methods or positive with one method (between sequencing and pure culture isolation) reaches now 423 plant species, 194 genera and 68 families. Such numbers rise to 679 plant species, 304 genera and 88 families if considered regardless of the detection methods applied.

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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 in June 2022 (EFSA, 2022). Raw data and interactive reports were published in Zenodo<sup>1</sup> in the EFSA Knowledge Junction community and in Microstrategy<sup>2</sup> 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 June 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.

<sup>1</sup> <https://doi.org/10.5281/zenodo.1339343>

<sup>2</sup> <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	
<ul style="list-style-type: none"> <li>• Science Citation Index Expanded</li> <li>• Social Sciences Citation Index</li> <li>• Arts &amp; Humanities Citation Index</li> <li>• Conference Proceedings Citation Index- Science</li> <li>• Conference Proceedings Citation Index- Social Science &amp; Humanities</li> <li>• Book Citation Index– Science</li> <li>• Book Citation Index– Social Sciences &amp; Humanities</li> <li>• Emerging Sources Citation Index</li> <li>• Current Chemical Reactions</li> <li>• Index Chemicus</li> </ul>	
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 29 August 2022. As the scope of the search was to retrieve references published after December 2021, the selected time span was from 1 January 2022 up to 30 June 2022. 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 xyllela 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 crespere 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 > 20,190,701 AND ORIG-LOAD-DATE < 20,201,231))	64
Web of Science	TS = (xylella OR xyllela OR xylela OR (pierce* NEAR/2 disease) OR (((Plum OR plums) AND "leaf scald*")) OR ((Phony NEAR/2 (peach* OR disease*))) OR ((citrus AND variegat* AND chlorosis)) OR crespere 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	83

Platform	Query	Results
	((Olive NEAR "quick decline syndrome")) OR "Xylem inhabiting bacteri*" OR "Xylem limited bacteri*" OR FXIB OR FXJB OR "rickettsialike bacteri*" OR "rickettsia like bacteri*")	

The collected references were downloaded and imported into an EndNote X9 library (Clarivate Analytics). Duplicates and references already included in the update published in June 2022 (EFSA, 2022) were removed using EndNote X9 and the remaining references were uploaded on DistillerSR online<sup>3</sup> together with the full texts in portable document format (pdf).

Eleven Europhyt outbreak notifications<sup>4</sup> (accessed on 20 October 2022) 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 <i>Xylella</i> /a <i>Xylella</i> associated disease/a <i>Xylella</i> synonym the topic of the study?	Only one of the possible alternative answers can be selected	Yes	Included
		No	Excluded
Is it a primary research study?	Only one of the possible alternative answers can be selected	Yes	Included
		No	Excluded

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
		No	Neutral
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

<sup>3</sup> <https://www.evidencepartners.com/>

<sup>4</sup> [https://food.ec.europa.eu/plants/plant-health-and-biosecurity/europhyt/network\\_en](https://food.ec.europa.eu/plants/plant-health-and-biosecurity/europhyt/network_en)

Question text	Type of answer	Answer text	Exclusion criteria
Is the <i>Xylella</i> host plant the main scope of the study?	Only one of the possible alternative answers can be selected	Yes	Neutral
		No	Neutral
Is <i>Xylella</i> /a <i>Xylella</i> -associated disease/a <i>Xylella</i> synonym studied in association with 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
<b>General information</b>	<i>In this section, the general information about the study is reported</i>
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
<b>Botanical identification</b>	<i>The botanical identification of the plant, both as reported in the publication and according to the updated taxonomy of the EPPO Global Database,<sup>5</sup> is reported in this section</i>
Plant EPPO code	EPPO code of the plant species, from the EPPO global database. <sup>5</sup> 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 <sup>5</sup>
Plant genus	Plant genus, from the EPPO global database <sup>5</sup>
Plant species	Plant species, from the EPPO global database <sup>5</sup>
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
<b>Infection information</b>	<i>Detailed information about the infection and location of the plant is reported in this section</i>
Infection method (Level 1)	The infection of the plant can be natural, artificial or not specified
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, screen house, interception, not specified

<sup>5</sup> <https://gd.eppo.int/>

Extracted data	Description
<b>Geographic information</b>	<i>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.</i>
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
Coordinates precision	Coordinates as reported in the publication
Latitude	Latitude, as reported in the publication
Longitude	Longitude, as reported in the publication
<b>Pest description</b>	<i>Information about the pest is reported in this section, together with genetic data</i>
Pest EPPO code	EPPO code of the pest, from the EPPO global database <sup>5</sup>
Pest species	Name of <i>Xylella</i> spp., from the EPPO global database <sup>5</sup>
Pest subspecies	<i>Xylella fastidiosa</i> subspecies, from the EPPO global database. <sup>5</sup> If the subspecies is inferred from another publication, a note is added to the genotyping comment
Reported pest	Name of <i>Xylella</i> spp. as reported in the publication. Names used before the genus <i>Xylella</i> was established (up to 1987): Alfalfa dwarf virus, Morus suffodiens virus, Phony peach bacterium, Pierce's disease bacterium, Pierce's disease virus, <i>Rickettsia</i> -like bacteria, Rod-shaped bacteria, Xylem-inhabiting bacteria. Names used from 1987 (when the genus <i>Xylella</i> was established): <i>Xylella fastidiosa</i> , <i>Xylella taiwanensis</i>
Disease	Name of the disease caused by <i>Xylella</i> 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 <i>Xylella</i> spp., as reported in the publication
MLST (Multilocus sequence type)	Sequence type (ST) of <i>Xylella fastidiosa</i> , 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
<b>Methods of identification</b>	<i>In this section, the identification methods applied to detect <i>Xylella</i> 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</i>
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
Culture	Pure culture isolation (i.e. isolation of cultivable bacteria from tissue samples on solid culture media)
Microscopy	Observation of <i>Xylella</i> spp. bacteria through microscopic analysis techniques
ELISA	Enzyme-linked immunosorbent assay
Other immunological techniques	Immunological techniques other than ELISA
PCR-based methods	Polymerase chain reaction-based methods (PCR, nested PCR, qPCR, etc.)
Sequencing	Sequence analysis
<b>Host status</b>	<i>Information about the tolerance and resistance response of the plant</i>
Tolerance/Resistance reported	Tolerant/resistant status of the plant, as reported in the publication



Extracted data	Description
Tolerance/Resistance 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, 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	Comment on the tolerant/resistant response of the plant, as reported in the publication
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

## 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 7** (doi: [10.5281/zenodo.1339343](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:

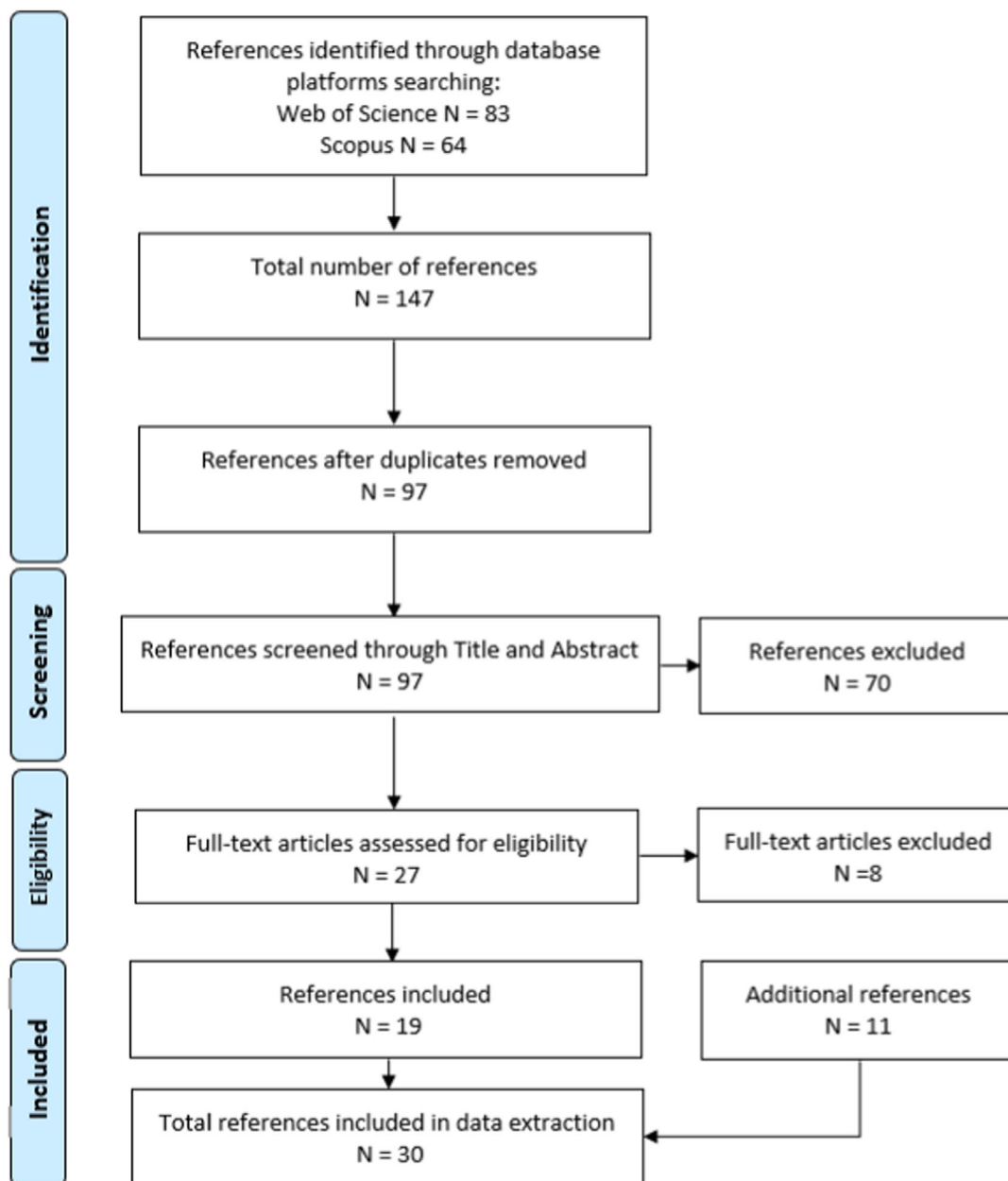
- A) Plant species positive with at least two detection methods (among symptoms observation on the test plant in experimental vector transmission, ELISA, other immunological techniques, PCR-based methods, sequencing and pure culture isolation) or positive with one method (between sequencing and pure 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 and 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 29 August 2022 on Web of Science and Scopus platforms and 147 references were collected. Duplicates and references already included in EFSA (2022) were removed and 97 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 27 references were subjected to the second step of the screening process, i.e. the full-text screening. Nineteen references, in which *Xylella* spp. is studied in association to a host plant, were selected. Eleven Europhyt outbreak notifications<sup>4</sup> containing informative data were also included in the data extraction. Totally, 30 references (listed in Appendix E) were included in this update of the database and from which informative data listed in Table 5 were extracted.



**Figure 1:** Flow diagram of the screening process

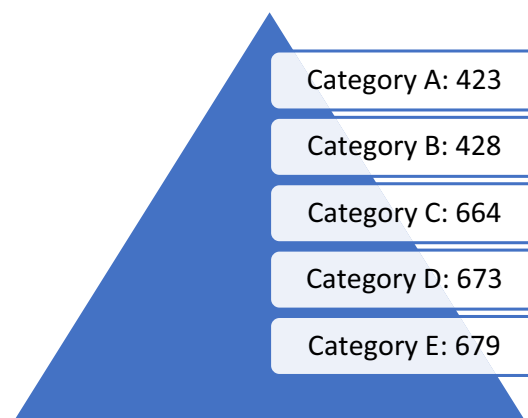
### 3.2. Update of records already included in the database

Scientific names of plant species, genera and families are reported, as far as possible, according 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.

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) become available. Records referring to Europhyt outbreak notifications n. -124 (Balearic Islands, Spain) and n. 753 (Porto, Portugal) have been updated in the database following additional information received by the respective NPPO. Records on some infected plant species in the outbreak of Monte Argentario (IT) have been modified following correction of data reported in Europhyt outbreak notification n. 718. In particular, *Phillyrea latifolia* (EPPO code 'PLRLA') and *Rosa* sp. (ROSSS) were replaced by *Rhamnus alaternus* ('RHAAL') and by *Rosa canina* ('ROSCN'), respectively. *Scabiosa* sp. ('SCBSS') was afterwards identified as *Scabiosa atropurpurea* var. *maritima* ('SXLAM'), while *Nerium oleander* was erroneously reported as infected and then removed from the list. *Salvia* sp. ('SALSS') infected in Apulia region (Europhyt outbreak notification n. -228) was afterwards identified as *Salvia rosmarinus* ('RMSOF').

### 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 423 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 and pure culture isolation)] to 679 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
<b>Number of host plant species</b>	423	428	664	673	679
<b>Number of host plant genera</b>	194	195	303	303	304
<b>Number of host plant families</b>	68	68	88	88	88

Compared to the previous update of the database published in June 2022 (EFSA, 2022), 15 plant species (and six 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 new plant species have been found to be naturally infected. Five plant species were reported infected by *X. fastidiosa* subsp. unknown (i.e. not reported) in Brazil, and for two of those plant species, artificial infection with *X. fastidiosa* subsp. *multiplex* has also been successful. In the EU, five new plant species were identified in Portugal, three in France, one in Italy and one in Spain. The subspecies identified in those plants was *multiplex* (seven plant species), *pauca* (one plant species) or unknown (two plant species).

**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 and new genera are highlighted in bold

Plant Eppo code	Plant family	Plant genus	Plant species	Infection method	Country	<i>X. fastidiosa</i> subspecies	Category
AYLBJ	Fabaceae	Anthyllis	<b><i>Anthyllis barba-jovis</i></b>	Natural	France	<i>multiplex</i>	A
CDTSE	Poaceae	<b>Cortaderia</b>	<b><i>Cortaderia selloana</i></b>	Natural	Portugal	unknown	A
INUVI	Asteraceae	<b>Dittrichia</b>	<b><i>Dittrichia viscosa</i></b>	Natural	France	<i>multiplex</i>	A
HYPAN	Hypericaceae	Hypericum	<b><i>Hypericum androsaemum</i></b>	Natural	Portugal	<i>multiplex</i>	A
LEPRU	Brassicaceae	Lepidium	<b><i>Lepidium ruderale</i></b>	Natural	Brazil	unknown	C
LEPRU	Brassicaceae	Lepidium	<b><i>Lepidium ruderale</i></b>	Artificial	–	<i>multiplex</i>	C
MYMSS	Scrophulariaceae	Myoporum	<b><i>Myoporum</i> sp.</b>	Natural	France	<i>multiplex</i>	A
PTNHY	Asteraceae	<b>Parthenium</b>	<b><i>Parthenium hysterophorus</i></b>	Natural	Brazil	unknown	C
PLAMA	Plantaginaceae	Plantago	<b><i>Plantago major</i></b>	Natural	Brazil	unknown	C
RAPSR	Brassicaceae	<b>Raphanus</b>	<b><i>Raphanus sativus</i></b>	Natural	Brazil	unknown	C
RAPSR	Brassicaceae	<b>Raphanus</b>	<b><i>Raphanus sativus</i></b>	Artificial	–	<i>multiplex</i>	C
RUBID	Rosaceae	Rubus	<b><i>Rubus idaeus</i></b>	Natural	Portugal	unknown	A
RUMSS	Polygonaceae	Rumex	<b><i>Rumex</i> sp.</b>	Natural	Brazil	unknown	C
RUAGR	Rutaceae	Ruta	<b><i>Ruta graveolens</i></b>	Natural	Portugal	<i>multiplex</i>	A
SNTSS	Asteraceae	Santolina	<b><i>Santolina</i> sp.</b>	Natural	Portugal	<i>multiplex</i>	A
SXLAM	Caprifoliaceae	<b>Scabiosa</b>	<b><i>Scabiosa atropurpurea</i> var. <i>maritima</i></b>	Natural	Italy	<i>multiplex</i>	A
THYVU	Lamiaceae	<b>Thymus</b>	<b><i>Thymus vulgaris</i></b>	Natural	Spain	<i>pauca</i>	A

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 still recorded for *X. fastidiosa* subsp. *multiplex* (212 according to category A, up to 219 for category E), followed by subsp. *fastidiosa* and subsp. *pauca*. In artificial infection, 40 (category A) and 79 (category E) plant species 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 36 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	<i>fastidiosa</i>	<i>fastidiosa_sandyi</i>	<i>morus</i>	<i>multiplex</i>	<i>pauca</i>	<i>sandyi</i>	<i>tashke</i>	unknown
A	58	2	4	212	55	7	1	162
B	58	2	4	212	55	7	1	167
C	61	2	4	219	59	8	1	367
D	61	2	4	219	59	8	1	373
E	61	2	4	219	59	8	1	384

**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	<i>fastidiosa</i>	<i>morus</i>	<i>multiplex</i>	<i>pauca</i>	<i>sandyi</i>	<i>tashke</i>	unknown
A	40	2	19	20	5	0	89
B	41	2	19	21	5	0	94
C	78	2	35	33	11	1	202
D	78	2	35	33	11	1	208
E	79	2	36	33	11	1	216

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

Category	<i>fastidiosa</i>	<i>multiplex</i>	<i>pauca</i>	<i>sandyi</i>	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

### 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) under natural, artificial and unspecified conditions is reported in Appendix D. For each plant species, the number of records<sup>6</sup> reporting infection by a specific ST is counted. For natural infection, the country where the plant species have been identified is also reported, whereas for artificial and unspecified infection only, the total number of records is presented in the appendix.

Totally, 2,347 records reporting information on 262 plant species infected by 89 different STs have been reported in the database. Most of the records (1,738) 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* (247 records). While ST1 (subsp. *fastidiosa*) remains the most used ST in artificial infections, now with 173 records, ST53 (subsp. *pauca*) is the most reported genotype in natural infections (475).

Compared to the previous version of the database (EFSA, 2022), two new STs have been identified worldwide. Both new STs belong to the subsp. *multiplex* and were identified in natural infections in France, respectively, in *Coronilla valentina* subsp. *glauca*, *Dimorphotheca ecklonis*, *Euryops*

<sup>6</sup> 'record' as defined in Section 2.3.

*chrysanthemoides*, *Hebe* sp., *Lavandula x intermedia*, *Polygala myrtifolia* (ST88) and *Myoporum* sp. and *Viburnum tinus* (ST89).

### 3.5. Tolerant and resistant responses 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. Five 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 available for 72 plant species with a total number of 713 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 Leccino cultivar of *Olea europaea* species (four records), which now gathers 34 records. A new record reporting resistant behaviour in *Vaccinium corymbosum* cultivar Emerald has also been added.

**Table 11:** Number of records reporting tolerant/resistant response for plant genus and species

Plant genus and species	Number of records
<b>Arabidopsis</b>	<b>4</b>
<i>Arabidopsis thaliana</i>	4
<b>Citrus</b>	<b>175</b>
<i>Citrus celebica</i>	1
<i>Citrus clementina</i>	4
<i>Citrus jambhiri</i>	2
<i>Citrus junos</i>	1
<i>Citrus latifolia</i>	1
<i>Citrus limettioides</i>	1
<i>Citrus limon</i>	14
<i>Citrus medica</i>	1
<i>Citrus natsudaikai</i>	1
<i>Citrus paradisi</i>	5
<i>Citrus reticulata</i>	9
<i>Citrus reticulata</i> x <i>C. sinensis</i> x <i>C. paradisi</i>	1
<i>Citrus sinensis</i>	8
<i>Citrus</i> sp.	70
<i>Citrus tangerina</i>	32
<i>Citrus x nobilis</i>	11
<i>Citrus x tangelo</i>	13
<b>Coffea</b>	<b>5</b>
<i>Coffea arabica</i>	4
<i>Coffea</i> sp.	1
<b>Fortunella</b>	<b>1</b>
<i>Fortunella margarita</i>	1
<b>Medicago</b>	<b>2</b>
<i>Medicago sativa</i>	2
<b>Olea</b>	<b>34</b>
<i>Olea europaea</i>	34
<b>Platanus</b>	<b>2</b>
<i>Platanus</i> sp.	2
<b>Poncirus</b>	<b>3</b>
<i>Poncirus trifoliata</i>	3
<b>Prunus</b>	<b>58</b>
<i>Prunus angustifolia</i>	1

Plant genus and species	Number of records
<i>Prunus armeniaca</i>	3
<i>Prunus avium</i>	5
<i>Prunus cerasus</i>	2
<i>Prunus domestica</i>	3
<i>Prunus dulcis</i>	8
<i>Prunus persica</i>	7
<i>Prunus salicina</i>	14
<i>Prunus</i> sp.	13
<i>Prunus</i> x <i>amygdalo-persica</i>	2
<b>Quercus</b>	<b>2</b>
<i>Quercus ilex</i>	2
<b>Vaccinium</b>	<b>10</b>
<i>Vaccinium corymbosum</i>	6
<i>Vaccinium</i> sp.	4
<b>Vitis</b>	<b>417</b>
<i>Vitis aestivalis</i>	4
<i>Vitis arizonica</i>	104
<i>Vitis arizonica</i> hybrid	6
<i>Vitis arizonica</i> x <i>V. rupestris</i>	6
<i>Vitis arizonica</i> x <i>V. vinifera</i>	1
<i>Vitis arizonica/candicans</i>	3
<i>Vitis arizonica/candicans</i> x <i>V. rupestris</i>	2
<i>Vitis arizonica/girdiana</i>	1
<i>Vitis berlandieri</i>	9
<i>Vitis berlandieri</i> x <i>riparia</i> hybrids	6
<i>Vitis berlandieri</i> x <i>V. rupestris</i>	4
<i>Vitis candicans</i>	23
<i>Vitis champinii</i> x ( <i>V. solonis</i> x <i>V. othello</i> )	1
<i>Vitis cinerea</i>	7
<i>Vitis cinerea</i> x <i>V. berlandieri</i>	2
<i>Vitis girdiana</i>	20
<i>Vitis monticola</i>	4
<i>Vitis munsoniana</i>	3
<i>Vitis popenoei</i>	1
<i>Vitis riparia</i>	19
<i>Vitis rotundifolia</i>	58
<i>Vitis rotundifolia</i> x <i>V. rupestris</i>	1
<i>Vitis simpsonii</i>	1
<i>Vitis</i> sp.	76
<i>Vitis tiliaefolia</i>	1
<i>Vitis treleasei</i>	6
<i>Vitis vinifera</i>	25
<i>Vitis vinifera</i> hybrid	6
<i>Vitis aestivalis</i> var. <i>smalliana</i>	4
<i>Vitis aestivalis</i> var. <i>smalliana</i> x <i>V. simpsonii</i>	4
<i>Vitis aestivalis</i> var. <i>smalliana</i> x <i>V. vinifera</i>	1
<i>Vitis nesbittiana</i>	2
<i>Vitis rufotomentosa</i>	1
<i>Vitis shuttleworthii</i>	5
<b>TOTAL</b>	<b>713</b>

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 713 records, for the most part (442) reporting artificial infections, return information on tolerance and resistance outcome to *X. fastidiosa* infection. In 45 publications, the authors consider the plant tolerant or resistant, but without adding further details, whereas in 24 publications (and 243 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.

**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	8		24
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	28	49	45
<b>TOTAL</b>	<b>442</b>	<b>222</b>	<b>49</b>	<b>132</b>

## 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 7**).

An extensive literature search was performed including all scientific papers published up to 30 June 2022, as well as additional Europhyt outbreak notifications (last accessed on 20 October 2022).

By these searches, 30 publications were selected and informative data were extracted.

Fifteen host plant species and six genera were identified as new hosts of *X. fastidiosa*. Those plant species and genera were not previously reported as hosts of *X. fastidiosa*. The new plant species have been found to be naturally infected in Brazil, France, Italy, Portugal and Spain. The *X. fastidiosa* subspecies identified were *multiplex*, *pauca* or unknown (i.e. not reported). Two of those new plant species were also successfully artificially infected with *X. fastidiosa* subsp. *multiplex*. No new data was retrieved for *X. taiwanensis*.

Compared to the previous version of the database (EFSA, 2022), two new STs, namely ST88 and ST89, belonging to the subsp. *multiplex* and detected in six and two host species, respectively, have been identified in natural infections occurring in France. It is worth mentioning that the list of new STs had not been updated for 4 years, when ST87 was identified in the *X. fastidiosa* outbreak found in Tuscany.

Information on tolerant/resistant status were reported for 72 plant species in 126 publications, with a total number of 713 records. The most studied and reported plant taxa are still the economically important genera *Citrus*, *Prunus* and *Vitis*. Newly acquired information on resistance or tolerance responses to infection were reported for *Olea europaea* (four records) and *Vaccinium corymbosum* (one record).



The overall number of *Xylella* spp. host plants reaches now 423 plant species, 194 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 and pure culture isolation)], till 679 plant species, 304 genera and 88 families for category E (i.e. all positives plant species reported, regardless of the detection methods).

A further update of the EFSA database on *Xylella* spp. host plants is planned for June 2023 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 7** (doi: [10.5281/zenodo.1339343](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 Organisation
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 and 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 and 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 EPPO code	Plant Species	Pest	Category A	Category B	Category C	Category D	Category E
1	ACASA	<i>Acacia saligna</i>	Xf subsp. unknown	A				
2	ACRRB	<i>Acer rubrum</i>	Xf subsp. unknown	A				
3	ALBJU	<i>Albizia julibrissin</i>	Xf subsp. unknown	A				
4	AMARE	<i>Amaranthus retroflexus</i>	Xf subsp. unknown	A				
5	AMBPS	<i>Ambrosia psilostachya</i>	Xf subsp. unknown	A				
6	AMBTR	<i>Ambrosia trifida</i>	Xf subsp. unknown	A				
7	AMCAR	<i>Ampelopsis arborea</i>	Xf subsp. unknown	A				
8	AMCBR	<i>Ampelopsis brevipedunculata</i>	Xf subsp. unknown	A				
9	AMCBH	<i>Ampelopsis brevipedunculata</i> var. <i>hancei</i>	Xf subsp. unknown	A				
10	CC135A	Periwinkle (common name)	Xf subsp. unknown	A				
11	ASPAC	<i>Asparagus acutifolius</i>	Xf subsp. unknown	A				
12	BACHA	<i>Baccharis halimifolia</i>	Xf subsp. unknown	A				
13	BACSS	<i>Baccharis</i> sp.	Xf subsp. unknown	A				

14	BRSSS	<i>Brassica</i> sp.	Xf subsp. unknown	A			
15	CLIAM	<i>Callicarpa americana</i>	Xf subsp. unknown	A			
16	CYAAQ	<i>Carya aquatica</i>	Xf subsp. unknown	A			
17	CYACA	<i>Carya cathayensis</i>	Xf subsp. unknown	A			
18	CYACO	<i>Carya cordiformis</i>	Xf subsp. unknown	A			
19	CYAFI	<i>Carya floridana</i>	Xf subsp. unknown	A			
20	CYAGL	<i>Carya glabra</i>	Xf subsp. unknown	A			
21	CYAIL	<i>Carya illinoensis</i>	Xf subsp. unknown	A			
22	CYALA	<i>Carya laciniata</i>	Xf subsp. unknown	A			
23	CYAPA	<i>Carya pallida</i>	Xf subsp. unknown	A			
24	CC275A	<i>Carya palmeri</i>	Xf subsp. unknown	A			
25	CYATO	<i>Carya tomentosa</i>	Xf subsp. unknown	A			
26	CTURO	<i>Catharanthus roseus</i>	Xf subsp. unknown	A			
27	CCSOC	<i>Cercis occidentalis</i>	Xf subsp. unknown	A			
28	CASFA	<i>Chamaecrista fasciculata</i>	Xf subsp. unknown	A			
29	CIORE	<i>Chionanthus retusus</i>	Xf subsp. unknown	A			
30	CXKTA	<i>Chitalpa tashkentensis</i>	Xf subsp. unknown	A			
31	CSTIC	<i>Cistus creticus</i>	Xf subsp. unknown	A			
32	CIDAU	<i>Citrus aurantium</i>	Xf subsp. unknown	A			
33	CIDCE	<i>Citrus celebica</i>	Xf subsp. unknown	A			
34	CIDJA	<i>Citrus jambhiri</i>	Xf subsp. unknown	A			
35	CIDLI	<i>Citrus limon</i>	Xf subsp. unknown	A			
36	CIDME	<i>Citrus medica</i>	Xf subsp. unknown	A			
37	CIDNA	<i>Citrus natsudaoidai</i>	Xf subsp. unknown	A			
38	CIDPA	<i>Citrus paradisi</i>	Xf subsp. unknown	A			
39	CIDRE	<i>Citrus reticulata</i>	Xf subsp. unknown	A			
40	CIDSI	<i>Citrus sinensis</i>	Xf subsp. unknown	A			
41	CIDSS	<i>Citrus</i> sp.	Xf subsp. unknown	A			

42	CIDTG	<i>Citrus tangerina</i>	Xf subsp. unknown	A			
43	CIDNO	<i>Citrus x nobilis</i>	Xf subsp. unknown	A			
44	CIDRP	<i>Citrus x tangelo</i>	Xf subsp. unknown	A			
45	CGACY	<i>Coelorachis cylindrica</i>	Xf subsp. unknown	A			
46	COFAR	<i>Coffea arabica</i>	Xf subsp. unknown	A			
47	COFSS	<i>Coffea</i> sp.	Xf subsp. unknown	A			
48	COIMA	<i>Conium maculatum</i>	Xf subsp. unknown	A			
49	CDTSE	<i>Cortaderia selloana</i>	Xf subsp. unknown	A			
50	DIGSS	<i>Digitaria</i> sp.	Xf subsp. unknown	A			
51	DOSKA	<i>Diospyros kaki</i>	Xf subsp. unknown	A			
52	DPYPA	<i>Diplocyclos palmatus</i>	Xf subsp. unknown	A			
53	DODVI	<i>Dodonaea viscosa</i>	Xf subsp. unknown	A			
54	EPHTE	<i>Euphorbia terracina</i>	Xf subsp. unknown	A			
55	FAUCR	<i>Fagus crenata</i>	Xf subsp. unknown	A			
56	FATJA	<i>Fatsia japonica</i>	Xf subsp. unknown	A			
57	FIUCA	<i>Ficus carica</i>	Xf subsp. unknown	A			
58	FRXPE	<i>Fraxinus pennsylvanica</i>	Xf subsp. unknown	A			
59	GIKBI	<i>Ginkgo biloba</i>	Xf subsp. unknown	A			
60	CC278A	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Xf subsp. unknown	A			
61	GREJU	<i>Grevillea juniperina</i>	Xf subsp. unknown	A			
62	HELAN	<i>Helianthus annuus</i>	Xf subsp. unknown	A			
63	HEGSS	<i>Hemerocallis</i> sp.	Xf subsp. unknown	A			
64	HIBSH	<i>Hibiscus schizopetalus</i>	Xf subsp. unknown	A			
65	HUMJA	<i>Humulus scandens</i>	Xf subsp. unknown	A			
66	ILEVO	<i>Ilex vomitoria</i>	Xf subsp. unknown	A			
67	IVAAN	<i>Iva annua</i>	Xf subsp. unknown	A			
68	IACMI	<i>Jacaranda mimosifolia</i>	Xf subsp. unknown	A			
69	IUGSS	<i>Juglans</i> sp.	Xf subsp. unknown	A			

70	IUPAS	<i>Juniperus ashei</i>	Xf subsp. unknown	A			
71	LAEin	<i>Lagerstroemia indica</i>	Xf subsp. unknown	A			
72	LAESS	<i>Lagerstroemia</i> sp.	Xf subsp. unknown	A			
73	LURNO	<i>Laurus nobilis</i>	Xf subsp. unknown	A			
74	LAVAN	<i>Lavandula angustifolia</i>	Xf subsp. unknown	A			
75	LAVDE	<i>Lavandula dentata</i>	Xf subsp. unknown	A			
76	LAVST	<i>Lavandula stoechas</i>	Xf subsp. unknown	A			
77	LIGLU	<i>Ligustrum lucidum</i>	Xf subsp. unknown	A			
78	LIQST	<i>Liquidambar styraciflua</i>	Xf subsp. unknown	A			
79	LONJA	<i>Lonicera japonica</i>	Xf subsp. unknown	A			
80	LUPAD	<i>Lupinus aridorum</i>	Xf subsp. unknown	A			
81	LUPVI	<i>Lupinus villosus</i>	Xf subsp. unknown	A			
82	MAGGR	<i>Magnolia grandiflora</i>	Xf subsp. unknown	A			
83	MLLPA	<i>Mallotus paniculatus</i>	Xf subsp. unknown	A			
84	MEDSA	<i>Medicago sativa</i>	Xf subsp. unknown	A			
85	MIMSS	<i>Mimosa</i> sp.	Xf subsp. unknown	A			
86	MODCA	<i>Modiola caroliniana</i>	Xf subsp. unknown	A			
87	MORAL	<i>Morus alba</i>	Xf subsp. unknown	A			
88	MORRU	<i>Morus rubra</i>	Xf subsp. unknown	A			
89	MORSS	<i>Morus</i> sp.	Xf subsp. unknown	A			
90	MYMIN	<i>Myoporum insulare</i>	Xf subsp. unknown	A			
91	MYVCO	<i>Myrtus communis</i>	Xf subsp. unknown	A			
92	NANDO	<i>Nandina domestica</i>	Xf subsp. unknown	A			
93	NPTLU	<i>Neptunia lutea</i>	Xf subsp. unknown	A			
94	NEROL	<i>Nerium oleander</i>	Xf subsp. unknown	A			
95	OLVEU	<i>Olea europaea</i>	Xf subsp. unknown	A			
96	OLVES	<i>Olea europaea</i> subsp. <i>sylvestris</i>	Xf subsp. unknown	A			
97	OLVSS	<i>Olea</i> sp.	Xf subsp. unknown	A			

98	PRTQU	<i>Parthenocissus quinquefolia</i>	Xf subsp. unknown	A			
99	PASDI	<i>Paspalum dilatatum</i>	Xf subsp. unknown	A			
100	PEBAM	<i>Persea americana</i>	Xf subsp. unknown	A			
101	PHXRE	<i>Phoenix reclinata</i>	Xf subsp. unknown	A			
102	PHXRO	<i>Phoenix roebelenii</i>	Xf subsp. unknown	A			
103	PIUTD	<i>Pinus taeda</i>	Xf subsp. unknown	A			
104	PLTOC	<i>Platanus occidentalis</i>	Xf subsp. unknown	A			
105	PLTSS	<i>Platanus</i> sp.	Xf subsp. unknown	A			
106	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. unknown	A			
107	PRNAV	<i>Prunus avium</i>	Xf subsp. unknown	A			
108	PRNCF	<i>Prunus cerasifera</i>	Xf subsp. unknown	A			
109	CC209A	<i>Prunus cerasifera</i> x <i>P. munsoniana</i>	Xf subsp. unknown	A			
110	PRNDU	<i>Prunus dulcis</i>	Xf subsp. unknown	A			
111	PRNPS	<i>Prunus persica</i>	Xf subsp. unknown	A			
112	PRNSC	<i>Prunus salicina</i>	Xf subsp. unknown	A			
113	PRNSS	<i>Prunus</i> sp.	Xf subsp. unknown	A			
114	PTEAQ	<i>Pteridium aquilinum</i>	Xf subsp. unknown	A			
115	PYUPY	<i>Pyrus pyrifolia</i>	Xf subsp. unknown	A			
116	PYUSS	<i>Pyrus</i> sp.	Xf subsp. unknown	A			
117	QUECO	<i>Quercus coccinea</i>	Xf subsp. unknown	A			
118	QUEFC	<i>Quercus falcata</i>	Xf subsp. unknown	A			
119	QUELA	<i>Quercus laevis</i>	Xf subsp. unknown	A			
120	QUELF	<i>Quercus laurifolia</i>	Xf subsp. unknown	A			
121	QUENI	<i>Quercus nigra</i>	Xf subsp. unknown	A			
122	QUEPA	<i>Quercus palustris</i>	Xf subsp. unknown	A			
123	QUERU	<i>Quercus rubra</i>	Xf subsp. unknown	A			
124	QUESS	<i>Quercus</i> sp.	Xf subsp. unknown	A			
125	QUEVE	<i>Quercus velutina</i>	Xf subsp. unknown	A			

126	QUEVI	<i>Quercus virginiana</i>	Xf subsp. unknown	A			
127	RATCO	<i>Ratibida columnifera</i>	Xf subsp. unknown	A			
128	RHAAL	<i>Rhamnus alaternus</i>	Xf subsp. unknown	A			
129	RHUSS	<i>Rhus</i> sp.	Xf subsp. unknown	A			
130	RUBHP	<i>Rubus hedycarpus</i> subsp. <i>procerus</i>	Xf subsp. unknown	A			
131	RUBID	<i>Rubus idaeus</i>	Xf subsp. unknown	A			
132	RUBSS	<i>Rubus</i> sp.	Xf subsp. unknown	A			
133	RMSOF	<i>Salvia rosmarinus</i>	Xf subsp. unknown	A			
134	SAMCN	<i>Sambucus canadensis</i>	Xf subsp. unknown	A			
135	SSAAL	<i>Sassafras albidum</i>	Xf subsp. unknown	A			
136	SSASS	<i>Sassafras</i> sp.	Xf subsp. unknown	A			
137	SETMG	<i>Setaria magna</i>	Xf subsp. unknown	A			
138	SOOFI	<i>Solidago fistulosa</i>	Xf subsp. unknown	A			
139	SPUJU	<i>Spartium junceum</i>	Xf subsp. unknown	A			
140	SWTPS	<i>Stewartia pseudocamellia</i>	Xf subsp. unknown	A			
141	ZMYDI	<i>Symphytotrichum divaricatum</i>	Xf subsp. unknown	A			
142	TRFRE	<i>Trifolium repens</i>	Xf subsp. unknown	A			
143	ULMAM	<i>Ulmus americana</i>	Xf subsp. unknown	A			
144	ULMGL	<i>Ulmus glabra</i>	Xf subsp. unknown	A			
145	ULMPU	<i>Ulmus pumila</i>	Xf subsp. unknown	A			
146	ULMSS	<i>Ulmus</i> sp.	Xf subsp. unknown	A			
147	VACAH	<i>Vaccinium ashei</i>	Xf subsp. unknown	A			
148	VACCO	<i>Vaccinium corymbosum</i>	Xf subsp. unknown	A			
149	VACSS	<i>Vaccinium</i> sp.	Xf subsp. unknown	A			
150	VACVG	<i>Vaccinium virgatum</i>	Xf subsp. unknown	A			
151	VINMA	<i>Vinca major</i>	Xf subsp. unknown	A			
152	VINMI	<i>Vinca minor</i>	Xf subsp. unknown	A			
153	VITCL	<i>Vitis californica</i>	Xf subsp. unknown	A			

154	VITCA	<i>Vitis candicans</i>	Xf subsp. unknown	A			
155	VITLA	<i>Vitis labrusca</i>	Xf subsp. unknown	A			
156	CC241A	<i>Vitis labrusca</i> x <i>V. vinifera</i>	Xf subsp. unknown	A			
157	VITMU	<i>Vitis munsoniana</i>	Xf subsp. unknown	A			
158	CC242A	<i>Vitis muscadina</i>	Xf subsp. unknown	A			
159	VITRI	<i>Vitis riparia</i>	Xf subsp. unknown	A			
160	VITRF	<i>Vitis rotundifolia</i>	Xf subsp. unknown	A			
161	VITSS	<i>Vitis</i> sp.	Xf subsp. unknown	A			
162	VITVI	<i>Vitis vinifera</i>	Xf subsp. unknown	A			
163	ACRSC	<i>Acer saccharum</i>	Xf subsp. unknown		B		
164	CYPER	<i>Cyperus eragrostis</i>	Xf subsp. unknown		B		
165	HVEBR	<i>Hevea brasiliensis</i>	Xf subsp. unknown		B		
166	PRNDO	<i>Prunus domestica</i>	Xf subsp. unknown		B		
167	SORHA	<i>Sorghum halepense</i>	Xf subsp. unknown		B		
168	ACALO	<i>Acacia longifolia</i>	Xf subsp. unknown			C	
169	ACRMA	<i>Acer macrophyllum</i>	Xf subsp. unknown			C	
170	ACRNE	<i>Acer negundo</i>	Xf subsp. unknown			C	
171	ACRPL	<i>Acer platanoides</i>	Xf subsp. unknown			C	
172	ACRSS	<i>Acer</i> sp.	Xf subsp. unknown			C	
173	AECHY	<i>Aesculus</i> x <i>hybrida</i>	Xf subsp. unknown			C	
174	AGTAU	<i>Agathis australis</i>	Xf subsp. unknown			C	
175	AGSGI	<i>Agrostis gigantea</i>	Xf subsp. unknown			C	
176	AEYEX	<i>Alectryon excelsus</i>	Xf subsp. unknown			C	
177	ALRFI	<i>Alternanthera ficoidea</i>	Xf subsp. unknown			C	
178	AMASS	<i>Amaranthus</i> sp.	Xf subsp. unknown			C	
179	BRODI	<i>Anisantha diandra</i>	Xf subsp. unknown			C	
180	BRORI	<i>Anisantha rigida</i>	Xf subsp. unknown			C	
181	ARYSS	<i>Arctostaphylos</i> sp.	Xf subsp. unknown			C	



182	ARTDO	<i>Artemisia douglasiana</i>	Xf subsp. unknown			C	
183	ATXSS	<i>Atriplex</i> sp.	Xf subsp. unknown			C	
184	AVEFA	<i>Avena fatua</i>	Xf subsp. unknown			C	
185	AXOCO	<i>Axonopus compressus</i>	Xf subsp. unknown			C	
186	BACPI	<i>Baccharis pilularis</i>	Xf subsp. unknown			C	
187	BIDPI	<i>Bidens pilosa</i>	Xf subsp. unknown			C	
188	BOEDI	<i>Boerhavia diffusa</i>	Xf subsp. unknown			C	
189	BOILF	<i>Borreria latifolia</i>	Xf subsp. unknown			C	
190	BRADC	<i>Brachiaria decumbens</i>	Xf subsp. unknown			C	
191	BRAPL	<i>Brachiaria plantaginea</i>	Xf subsp. unknown			C	
192	BRGSS	<i>Brachyglottis</i> sp.	Xf subsp. unknown			C	
193	BROSS	<i>Bromus</i> sp.	Xf subsp. unknown			C	
194	BRNPA	<i>Broussonetia papyrifera</i>	Xf subsp. unknown			C	
195	CCOSS	<i>Calicotome</i> sp.	Xf subsp. unknown			C	
196	BLABI	<i>Calyptocarpus biaristatus</i>	Xf subsp. unknown			C	
197	CMIRA	<i>Campsis radicans</i>	Xf subsp. unknown			C	
198	CAPBP	<i>Capsella bursa-pastoris</i>	Xf subsp. unknown			C	
199	CRXSS	<i>Carex</i> sp.	Xf subsp. unknown			C	
200	CELOR	<i>Celastrus orbiculatus</i>	Xf subsp. unknown			C	
201	CCHEC	<i>Cenchrus echinatus</i>	Xf subsp. unknown			C	
202	CHEMU	<i>Chenopodium murale</i>	Xf subsp. unknown			C	
203	CHRHA	<i>Chloris halophila</i>	Xf subsp. unknown			C	
204	CC158A	<i>Coffea arabica</i> x <i>C. canephora</i>	Xf subsp. unknown			C	
205	CC159A	<i>Coffea arabica</i> x <i>C. eugenioides</i>	Xf subsp. unknown			C	
206	CC161A	<i>Coffea arabica</i> x <i>C. liberica</i> var. <i>dewevrei</i>	Xf subsp. unknown			C	
207	CC162A	<i>Coffea arabica</i> x <i>C. racemosa</i>	Xf subsp. unknown			C	
208	COFCA	<i>Coffea canephora</i>	Xf subsp. unknown			C	
209	RDGVE	<i>Coffea racemosa</i>	Xf subsp. unknown			C	

210	CC164A	<i>Coffea eugenioides</i>	Xf subsp. unknown			C	
211	CC165A	<i>Coffea kapakata</i>	Xf subsp. unknown			C	
212	COFEX	<i>Coffea liberica</i> var. <i>dewevrei</i>	Xf subsp. unknown			C	
213	COFST	<i>Coffea stenophylla</i>	Xf subsp. unknown			C	
214	COMBE	<i>Commelina benghalensis</i>	Xf subsp. unknown			C	
215	COMER	<i>Commelina erecta</i>	Xf subsp. unknown			C	
216	CONAR	<i>Convolvulus arvensis</i>	Xf subsp. unknown			C	
217	CPMRE	<i>Coprosma repens</i>	Xf subsp. unknown			C	
218	CPMRO	<i>Coprosma robusta</i>	Xf subsp. unknown			C	
219	CDLAU	<i>Cordyline australis</i>	Xf subsp. unknown			C	
220	CDLSS	<i>Cordyline</i> sp.	Xf subsp. unknown			C	
221	CRWFL	<i>Cornus florida</i>	Xf subsp. unknown			C	
222	CKICO	<i>Corokia cotoneaster</i>	Xf subsp. unknown			C	
223	CKIMA	<i>Corokia macrocarpa</i>	Xf subsp. unknown			C	
224	CKISS	<i>Corokia</i> sp.	Xf subsp. unknown			C	
225	CCKLA	<i>Corynocarpus laevigatus</i>	Xf subsp. unknown			C	
226	ERMSE	<i>Croton setigerus</i>	Xf subsp. unknown			C	
227	CYNDA	<i>Cynodon dactylon</i>	Xf subsp. unknown			C	
228	CYPSS	<i>Cyperus</i> sp.	Xf subsp. unknown			C	
229	SAOSC	<i>Cytisus scoparius</i>	Xf subsp. unknown			C	
230	DATWR	<i>Datura wrightii</i>	Xf subsp. unknown			C	
231	DIGHO	<i>Digitaria horizontalis</i>	Xf subsp. unknown			C	
232	TRCIN	<i>Digitaria insularis</i>	Xf subsp. unknown			C	
233	DIGSA	<i>Digitaria sanguinalis</i>	Xf subsp. unknown			C	
234	DUTPL	<i>Duranta erecta</i>	Xf subsp. unknown			C	
235	CHEAM	<i>Dysphania ambrosioides</i>	Xf subsp. unknown			C	
236	ECHCG	<i>Echinochloa crus-galli</i>	Xf subsp. unknown			C	
237	ELEIN	<i>Eleusine indica</i>	Xf subsp. unknown			C	

238	ERICA	<i>Erigeron canadensis</i>	Xf subsp. unknown			C	
239	ERBCO	<i>Eriochloa contracta</i>	Xf subsp. unknown			C	
240	ERGSS	<i>Eriogonum</i> sp.	Xf subsp. unknown			C	
241	EROBO	<i>Erodium botrys</i>	Xf subsp. unknown			C	
242	EROMO	<i>Erodium moschatum</i>	Xf subsp. unknown			C	
243	EROSS	<i>Erodium</i> sp.	Xf subsp. unknown			C	
244	ESABI	<i>Escallonia bifida</i>	Xf subsp. unknown			C	
245	EUCSS	<i>Eucalyptus</i> sp.	Xf subsp. unknown			C	
246	EPHHI	<i>Euphorbia hirta</i>	Xf subsp. unknown			C	
247	FACAP	<i>Facelis retusa</i>	Xf subsp. unknown			C	
248	CC180A	<i>Fragaria vesca</i> subsp. <i>californica</i>	Xf subsp. unknown			C	
249	FRXDI	<i>Fraxinus dipetala</i>	Xf subsp. unknown			C	
250	FUCMA	<i>Fuchsia magellanica</i>	Xf subsp. unknown			C	
251	GERDI	<i>Geranium dissectum</i>	Xf subsp. unknown			C	
252	HAGER	<i>Haloragis erecta</i>	Xf subsp. unknown			C	
253	HBESS	<i>Hebe</i> sp.	Xf subsp. unknown			C	
254	HEEHE	<i>Hedera helix</i>	Xf subsp. unknown			C	
255	HEOFR	<i>Heliotropium fruticosum</i>	Xf subsp. unknown			C	
256	HEOIN	<i>Heliotropium indicum</i>	Xf subsp. unknown			C	
257	HTTGR	<i>Heterotheca grandiflora</i>	Xf subsp. unknown			C	
258	HORMU	<i>Hordeum murinum</i>	Xf subsp. unknown			C	
259	HYEPA	<i>Hydrangea paniculata</i>	Xf subsp. unknown			C	
260	HRYBR	<i>Hypochaeris brasiliensis</i>	Xf subsp. unknown			C	
261	IPOFI	<i>Ipomoea fistulosa</i>	Xf subsp. unknown			C	
262	LACSE	<i>Lactuca serriola</i>	Xf subsp. unknown			C	
263	LECSI	<i>Leonurus sibiricus</i>	Xf subsp. unknown			C	
264	LEPAU	<i>Lepidium auriculatum</i>	Xf subsp. unknown			C	
265	COPDI	<i>Lepidium didymum</i>	Xf subsp. unknown			C	

266	LEPRU	<i>Lepidium ruderales</i>	Xf subsp. unknown			C	
267	LIGSI	<i>Ligustrum sinense</i>	Xf subsp. unknown			C	
268	CC189A	<i>Ligustrum virginicum</i>	Xf subsp. unknown			C	
269	LIRTU	<i>Liriodendron tulipifera</i>	Xf subsp. unknown			C	
270	LOLMU	<i>Lolium multiflorum</i>	Xf subsp. unknown			C	
271	LOLPE	<i>Lolium perenne</i>	Xf subsp. unknown			C	
272	LUDUR	<i>Ludwigia grandiflora</i>	Xf subsp. unknown			C	
273	MALPA	<i>Malva parviflora</i>	Xf subsp. unknown			C	
274	MAQVU	<i>Marrubium vulgare</i>	Xf subsp. unknown			C	
275	MEDPO	<i>Medicago polymorpha</i>	Xf subsp. unknown			C	
276	MLQTE	<i>Melicope ternata</i>	Xf subsp. unknown			C	
277	MLYRA	<i>Melicytus ramiflorus</i>	Xf subsp. unknown			C	
278	MEUSS	<i>Melilotus</i> sp.	Xf subsp. unknown			C	
279	MLSOF	<i>Melissa officinalis</i>	Xf subsp. unknown			C	
280	MRRMA	<i>Merremia macrocalyx</i>	Xf subsp. unknown			C	
281	MRYSI	<i>Meryta sinclairii</i>	Xf subsp. unknown			C	
282	MTDEX	<i>Metrosideros excelsa</i>	Xf subsp. unknown			C	
283	MTDSS	<i>Metrosideros</i> sp.	Xf subsp. unknown			C	
284	CC195A	<i>Metrosideros kermadecensis</i>	Xf subsp. unknown			C	
285	MNTLI	<i>Montiastrum lineare</i>	Xf subsp. unknown			C	
286	MYMLA	<i>Myoporum laetum</i>	Xf subsp. unknown			C	
287	MAJHO	<i>Origanum majorana</i>	Xf subsp. unknown			C	
288	DKTAC	<i>Panicum acuminatum</i>	Xf subsp. unknown			C	
289	PTNHY	<i>Parthenium hysterophorus</i>	Xf subsp. unknown			C	
290	PRTRR	<i>Parthenocissus tricuspidata</i>	Xf subsp. unknown			C	
291	PASUR	<i>Paspalum urvillei</i>	Xf subsp. unknown			C	
292	CC200A	<i>Paspalum regnellii</i>	Xf subsp. unknown			C	
293	PAQFO	<i>Passiflora foetida</i>	Xf subsp. unknown			C	

294	PESCL	<i>Pennisetum clandestinum</i>	Xf subsp. unknown			C	
295	POLLA	<i>Persicaria lapathifolia</i>	Xf subsp. unknown			C	
296	POLPE	<i>Persicaria maculosa</i>	Xf subsp. unknown			C	
297	PGASA	<i>Phagnalon saxatile</i>	Xf subsp. unknown			C	
298	PHAAN	<i>Phalaris angusta</i>	Xf subsp. unknown			C	
299	PHXSS	<i>Phoenix</i> sp.	Xf subsp. unknown			C	
300	PHMCO	<i>Phormium colensoi</i>	Xf subsp. unknown			C	
301	PHMTE	<i>Phormium tenax</i>	Xf subsp. unknown			C	
302	PTUCR	<i>Pittosporum crassifolium</i>	Xf subsp. unknown			C	
303	PTUEU	<i>Pittosporum eugenioides</i>	Xf subsp. unknown			C	
304	PTUTE	<i>Pittosporum tenuifolium</i>	Xf subsp. unknown			C	
305	PTUUM	<i>Pittosporum umbellatum</i>	Xf subsp. unknown			C	
306	PLALA	<i>Plantago lanceolata</i>	Xf subsp. unknown			C	
307	PLAMA	<i>Plantago major</i>	Xf subsp. unknown			C	
308	PLUOD	<i>Pluchea odorata</i>	Xf subsp. unknown			C	
309	POAAN	<i>Poa annua</i>	Xf subsp. unknown			C	
310	POLAR	<i>Polygonum arenastrum</i>	Xf subsp. unknown			C	
311	POROL	<i>Portulaca oleracea</i>	Xf subsp. unknown			C	
312	PRNAN	<i>Prunus angustifolia</i>	Xf subsp. unknown			C	
313	PRNLR	<i>Prunus laurocerasus</i>	Xf subsp. unknown			C	
314	PRNSO	<i>Prunus serotina</i>	Xf subsp. unknown			C	
315	PRNSL	<i>Prunus serrulata</i>	Xf subsp. unknown			C	
316	CC214A	<i>Prunus simonii</i> x <i>P. salicina</i> x <i>P. cerasifera</i> x <i>P. munsoniana</i>	Xf subsp. unknown			C	
317	QUEAG	<i>Quercus agrifolia</i>	Xf subsp. unknown			C	
318	QUEAL	<i>Quercus alba</i>	Xf subsp. unknown			C	
319	QUEIL	<i>Quercus ilex</i>	Xf subsp. unknown			C	
320	QUEIM	<i>Quercus imbricaria</i>	Xf subsp. unknown			C	

321	QUEIN	<i>Quercus incana</i>	Xf subsp. unknown			C	
322	QUEMC	<i>Quercus macrocarpa</i>	Xf subsp. unknown			C	
323	QUEPH	<i>Quercus phellos</i>	Xf subsp. unknown			C	
324	RANRE	<i>Ranunculus repens</i>	Xf subsp. unknown			C	
325	RAPSR	<i>Raphanus sativus</i>	Xf subsp. unknown			C	
326	RHUDI	<i>Rhus diversiloba</i>	Xf subsp. unknown			C	
327	RCHSS	<i>Richardia</i> sp.	Xf subsp. unknown			C	
328	ROSCA	<i>Rosa californica</i>	Xf subsp. unknown			C	
329	RUBUR	<i>Rubus ursinus</i>	Xf subsp. unknown			C	
330	RUBVI	<i>Rubus vitifolius</i>	Xf subsp. unknown			C	
331	1RUMG	<i>Rumex</i>	Xf subsp. unknown			C	
332	RUMCR	<i>Rumex crispus</i>	Xf subsp. unknown			C	
333	RUMSS	<i>Rumex</i> sp.	Xf subsp. unknown			C	
334	SAXSS	<i>Salix</i> sp.	Xf subsp. unknown			C	
335	SASKT	<i>Salsola kali</i> subsp. <i>tragus</i>	Xf subsp. unknown			C	
336	SALOF	<i>Salvia officinalis</i>	Xf subsp. unknown			C	
337	SAMGL	<i>Sambucus cerulea</i>	Xf subsp. unknown			C	
338	SNTMA	<i>Santolina magonica</i>	Xf subsp. unknown			C	
339	SENGB	<i>Senecio grisebachii</i>	Xf subsp. unknown			C	
340	SENVU	<i>Senecio vulgaris</i>	Xf subsp. unknown			C	
341	CC221A	<i>Senna secundiflora</i>	Xf subsp. unknown			C	
342	SIDRH	<i>Sida rhombifolia</i>	Xf subsp. unknown			C	
343	SLYMA	<i>Silybum marianum</i>	Xf subsp. unknown			C	
344	SSYIR	<i>Sisymbrium irio</i>	Xf subsp. unknown			C	
345	SOLAM	<i>Solanum americanum</i>	Xf subsp. unknown			C	
346	SONOL	<i>Sonchus oleraceus</i>	Xf subsp. unknown			C	
347	SONSS	<i>Sonchus</i> sp.	Xf subsp. unknown			C	
348	SOBSE	<i>Sophora secundiflora</i>	Xf subsp. unknown			C	

349	STAAR	<i>Stachys arvensis</i>	Xf subsp. unknown			C	
350	STEME	<i>Stellaria media</i>	Xf subsp. unknown			C	
351	SYZPA	<i>Syzygium paniculatum</i>	Xf subsp. unknown			C	
352	TALPA	<i>Talinum paniculatum</i>	Xf subsp. unknown			C	
353	TAROF	<i>Taraxacum officinale</i>	Xf subsp. unknown			C	
354	TRFIN	<i>Trifolium incarnatum</i>	Xf subsp. unknown			C	
355	ULEPA	<i>Ulex parviflorus</i>	Xf subsp. unknown			C	
356	URTLY	<i>Urtica dioica</i> subsp. <i>gracilis</i>	Xf subsp. unknown			C	
357	URTUR	<i>Urtica urens</i>	Xf subsp. unknown			C	
358	VEBLI	<i>Verbena litoralis</i>	Xf subsp. unknown			C	
359	VENSS	<i>Vernonia</i> sp.	Xf subsp. unknown			C	
360	VERPE	<i>Veronica persica</i>	Xf subsp. unknown			C	
361	VERSS	<i>Veronica</i> sp.	Xf subsp. unknown			C	
362	CC226A	<i>Vicia ludoviciana</i>	Xf subsp. unknown			C	
363	VIXLU	<i>Vitex lucens</i>	Xf subsp. unknown			C	
364	VITAZ	<i>Vitis arizonica</i>	Xf subsp. unknown			C	
365	VITGI	<i>Vitis girdiana</i>	Xf subsp. unknown			C	
366	WSTFR	<i>Wisteria frutescens</i>	Xf subsp. unknown			C	
367	XANSP	<i>Xanthium spinosum</i>	Xf subsp. unknown			C	
368	CIDLO	<i>Citrus x limonia</i>	Xf subsp. unknown				D
369	COFLI	<i>Coffea liberica</i>	Xf subsp. unknown				D
370	PRNAM	<i>Prunus americana</i>	Xf subsp. unknown				D
371	PRNMS	<i>Prunus munsoniana</i>	Xf subsp. unknown				D
372	PRNSI	<i>Prunus simonii</i>	Xf subsp. unknown				D
373	SOOCA	<i>Solidago canadensis</i>	Xf subsp. unknown				D
374	PRNAR	<i>Prunus armeniaca</i>	Xf subsp. unknown				E
375	PRNHO	<i>Prunus hortulana</i>	Xf subsp. unknown				E
376	PRNME	<i>Prunus mexicana</i>	Xf subsp. unknown				E

377	ULMHO	<i>Ulmus x hollandica</i>	Xf subsp. unknown					E
378	VITAE	<i>Vitis aestivalis</i>	Xf subsp. unknown					E
379	VITBQ	<i>Vitis bourquiniana</i>	Xf subsp. unknown					E
380	VITCI	<i>Vitis cinerea</i>	Xf subsp. unknown					E
381	VITCN	<i>Vitis simpsonii</i>	Xf subsp. unknown					E
382	VITCH	<i>Vitis x champinii</i>	Xf subsp. unknown					E
383	CC256A	<i>Vitis rufotomentosa</i>	Xf subsp. unknown					E
384	CC257A	<i>Vitis shuttleworthii</i>	Xf subsp. unknown					E
<b>N</b>	<b>Plant EPPO code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	ACRSS	<i>Acer</i> sp.	Xf subsp. <i>fastidiosa</i>	A				
2	AMBEL	<i>Ambrosia artemisiifolia</i>	Xf subsp. <i>fastidiosa</i>	A				
3	CCOSP	<i>Calicotome spinosa</i>	Xf subsp. <i>fastidiosa</i>	A				
4	CCSOC	<i>Cercis occidentalis</i>	Xf subsp. <i>fastidiosa</i>	A				
5	CSTMO	<i>Cistus monspeliensis</i>	Xf subsp. <i>fastidiosa</i>	A				
6	CIDLI	<i>Citrus limon</i>	Xf subsp. <i>fastidiosa</i>	A				
7	CIDPA	<i>Citrus paradisi</i>	Xf subsp. <i>fastidiosa</i>	A				
8	CIDRE	<i>Citrus reticulata</i>	Xf subsp. <i>fastidiosa</i>	A				
9	CIDSI	<i>Citrus sinensis</i>	Xf subsp. <i>fastidiosa</i>	A				
10	COFAR	<i>Coffea arabica</i>	Xf subsp. <i>fastidiosa</i>	A				
11	COFCA	<i>Coffea canephora</i>	Xf subsp. <i>fastidiosa</i>	A				
12	COFSS	<i>Coffea</i> sp.	Xf subsp. <i>fastidiosa</i>	A				
13	ELGAN	<i>Elaeagnus angustifolia</i>	Xf subsp. <i>fastidiosa</i>	A				
14	CC270A	<i>Erysimum</i> hybrids	Xf subsp. <i>fastidiosa</i>	A				
15	FIUCA	<i>Ficus carica</i>	Xf subsp. <i>fastidiosa</i>	A				
16	GENLU	<i>Genista lucida</i>	Xf subsp. <i>fastidiosa</i>	A				
17	IUGRE	<i>Juglans regia</i>	Xf subsp. <i>fastidiosa</i>	A				
18	LUPAD	<i>Lupinus aridorum</i>	Xf subsp. <i>fastidiosa</i>	A				



19	MAGGR	<i>Magnolia grandiflora</i>	Xf subsp. <i>fastidiosa</i>	A			
20	MEDSA	<i>Medicago sativa</i>	Xf subsp. <i>fastidiosa</i>	A			
21	MTDSS	<i>Metrosideros</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
22	MORSS	<i>Morus</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
23	MYVCO	<i>Myrtus communis</i>	Xf subsp. <i>fastidiosa</i>	A			
24	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>fastidiosa</i>	A			
25	PELGV	<i>Pelargonium graveolens</i>	Xf subsp. <i>fastidiosa</i>	A			
26	PLUOD	<i>Pluchea odorata</i>	Xf subsp. <i>fastidiosa</i>	A			
27	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. <i>fastidiosa</i>	A			
28	PRNAV	<i>Prunus avium</i>	Xf subsp. <i>fastidiosa</i>	A			
29	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>fastidiosa</i>	A			
30	PRNPS	<i>Prunus persica</i>	Xf subsp. <i>fastidiosa</i>	A			
31	PRNSS	<i>Prunus</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
32	PSISS	<i>Psidium</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
33	RHAAL	<i>Rhamnus alaternus</i>	Xf subsp. <i>fastidiosa</i>	A			
34	RUBDI	<i>Rubus rigidus</i>	Xf subsp. <i>fastidiosa</i>	A			
35	RUBUR	<i>Rubus ursinus</i>	Xf subsp. <i>fastidiosa</i>	A			
36	RUACH	<i>Ruta chalepensis</i>	Xf subsp. <i>fastidiosa</i>	A			
37	RMSOF	<i>Salvia rosmarinus</i>	Xf subsp. <i>fastidiosa</i>	A			
38	SAMCN	<i>Sambucus canadensis</i>	Xf subsp. <i>fastidiosa</i>	A			
39	SAMSS	<i>Sambucus</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
40	SPUJU	<i>Spartium junceum</i>	Xf subsp. <i>fastidiosa</i>	A			
41	STZRE	<i>Strelitzia reginae</i>	Xf subsp. <i>fastidiosa</i>	A			
42	SRQHY	<i>Streptocarpus</i> hybrids	Xf subsp. <i>fastidiosa</i>	A			
43	TEUCP	<i>Teucrium capitatum</i>	Xf subsp. <i>fastidiosa</i>	A			
44	ULEEU	<i>Ulex europaeus</i>	Xf subsp. <i>fastidiosa</i>	A			
45	ULMAM	<i>Ulmus americana</i>	Xf subsp. <i>fastidiosa</i>	A			
46	VACCO	<i>Vaccinium corymbosum</i>	Xf subsp. <i>fastidiosa</i>	A			

47	VINMA	<i>Vinca major</i>	Xf subsp. <i>fastidiosa</i>	A				
48	VINSS	<i>Vinca</i> sp.	Xf subsp. <i>fastidiosa</i>	A				
49	VITAE	<i>Vitis aestivalis</i>	Xf subsp. <i>fastidiosa</i>	A				
50	CC227A	<i>Vitis aestivalis</i> hybrid	Xf subsp. <i>fastidiosa</i>	A				
51	VITCL	<i>Vitis californica</i>	Xf subsp. <i>fastidiosa</i>	A				
52	VITCA	<i>Vitis candicans</i>	Xf subsp. <i>fastidiosa</i>	A				
53	CC238A	<i>Vitis cinerea</i> var. <i>helleri</i> x <i>V. vulpina</i>	Xf subsp. <i>fastidiosa</i>	A				
54	VITGI	<i>Vitis girdiana</i>	Xf subsp. <i>fastidiosa</i>	A				
55	VITHD	<i>Vitis</i> hybrids	Xf subsp. <i>fastidiosa</i>	A				
56	VITRF	<i>Vitis rotundifolia</i>	Xf subsp. <i>fastidiosa</i>	A				
57	VITSS	<i>Vitis</i> sp.	Xf subsp. <i>fastidiosa</i>	A				
58	VITVI	<i>Vitis vinifera</i>	Xf subsp. <i>fastidiosa</i>	A				
59	BRNPA	<i>Broussonetia papyrifera</i>	Xf subsp. <i>fastidiosa</i>		B			
60	QUESS	<i>Quercus</i> sp.	Xf subsp. <i>fastidiosa</i>		B			
61	ULMSS	<i>Ulmus</i> sp.	Xf subsp. <i>fastidiosa</i>		B			

<b>N</b>	<b>Plant EPO code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	ACACL	<i>Acacia cultriformis</i>	Xf subsp. <i>multiplex</i>	A				
2	ACADA	<i>Acacia dealbata</i>	Xf subsp. <i>multiplex</i>	A				
3	ACALO	<i>Acacia longifolia</i>	Xf subsp. <i>multiplex</i>	A				
4	ACAME	<i>Acacia melanoxylon</i>	Xf subsp. <i>multiplex</i>	A				
5	ACASA	<i>Acacia saligna</i>	Xf subsp. <i>multiplex</i>	A				
6	ACASS	<i>Acacia</i> sp.	Xf subsp. <i>multiplex</i>	A				
7	ACRGS	<i>Acer griseum</i>	Xf subsp. <i>multiplex</i>	A				
8	ACRPP	<i>Acer pseudoplatanus</i>	Xf subsp. <i>multiplex</i>	A				
9	ACRRB	<i>Acer rubrum</i>	Xf subsp. <i>multiplex</i>	A				
10	ADCCL	<i>Adenocarpus lainzii</i>	Xf subsp. <i>multiplex</i>	A				
11	ALURH	<i>Alnus rhombifolia</i>	Xf subsp. <i>multiplex</i>	A				

12	AMBPS	<i>Ambrosia psilostachya</i>	Xf subsp. <i>multiplex</i>	A			
13	AMBSS	<i>Ambrosia</i> sp.	Xf subsp. <i>multiplex</i>	A			
14	AMBTR	<i>Ambrosia trifida</i>	Xf subsp. <i>multiplex</i>	A			
15	AMBTT	<i>Ambrosia trifida</i> var. <i>texana</i>	Xf subsp. <i>multiplex</i>	A			
16	AMCCO	<i>Ampelopsis cordata</i>	Xf subsp. <i>multiplex</i>	A			
17	AYLBJ	<i>Anthyllis barba-jovis</i>	Xf subsp. <i>multiplex</i>	A			
18	AYLHE	<i>Anthyllis hermanniae</i>	Xf subsp. <i>multiplex</i>	A			
19	CC135A	Periwinkle (common name)	Xf subsp. <i>multiplex</i>	A			
20	ARDUN	<i>Arbutus unedo</i>	Xf subsp. <i>multiplex</i>	A			
21	CHYFR	<i>Argyranthemum frutescens</i>	Xf subsp. <i>multiplex</i>	A			
22	ARTAB	<i>Artemisia absinthium</i>	Xf subsp. <i>multiplex</i>	A			
23	ARTAO	<i>Artemisia arborescens</i>	Xf subsp. <i>multiplex</i>	A			
24	ARTSS	<i>Artemisia</i> sp.	Xf subsp. <i>multiplex</i>	A			
25	ASPAC	<i>Asparagus acutifolius</i>	Xf subsp. <i>multiplex</i>	A			
26	ATUFF	<i>Athyrium filix-femina</i>	Xf subsp. <i>multiplex</i>	A			
27	BACHA	<i>Baccharis halimifolia</i>	Xf subsp. <i>multiplex</i>	A			
28	BEBTH	<i>Berberis thunbergii</i>	Xf subsp. <i>multiplex</i>	A			
29	CCOSP	<i>Calicotome spinosa</i>	Xf subsp. <i>multiplex</i>	A			
30	CCOVI	<i>Calicotome villosa</i>	Xf subsp. <i>multiplex</i>	A			
31	CLXCI	<i>Callistemon citrinus</i>	Xf subsp. <i>multiplex</i>	A			
32	CUNVU	<i>Calluna vulgaris</i>	Xf subsp. <i>multiplex</i>	A			
33	KLCBR	<i>Calocephalus brownii</i>	Xf subsp. <i>multiplex</i>	A			
34	CYAIL	<i>Carya illinoensis</i>	Xf subsp. <i>multiplex</i>	A			
35	CYASS	<i>Carya</i> sp.	Xf subsp. <i>multiplex</i>	A			
36	CETOC	<i>Celtis occidentalis</i>	Xf subsp. <i>multiplex</i>	A			
37	CCSCA	<i>Cercis canadensis</i>	Xf subsp. <i>multiplex</i>	A			
38	CCSOC	<i>Cercis occidentalis</i>	Xf subsp. <i>multiplex</i>	A			
39	CCSSI	<i>Cercis siliquastrum</i>	Xf subsp. <i>multiplex</i>	A			

40	CIOSS	<i>Chionanthus</i> sp.	Xf subsp. <i>multiplex</i>	A			
41	CSTAL	<i>Cistus albidus</i>	Xf subsp. <i>multiplex</i>	A			
42	CSTIC	<i>Cistus creticus</i>	Xf subsp. <i>multiplex</i>	A			
43	CSTPS	<i>Cistus inflatus</i>	Xf subsp. <i>multiplex</i>	A			
44	CSTMO	<i>Cistus monspeliensis</i>	Xf subsp. <i>multiplex</i>	A			
45	CSTSA	<i>Cistus salviifolius</i>	Xf subsp. <i>multiplex</i>	A			
46	CSTSS	<i>Cistus</i> sp.	Xf subsp. <i>multiplex</i>	A			
47	CLVCI	<i>Clematis cirrhosa</i>	Xf subsp. <i>multiplex</i>	A			
48	CLVVT	<i>Clematis vitalba</i>	Xf subsp. <i>multiplex</i>	A			
49	CONCN	<i>Convolvulus cneorum</i>	Xf subsp. <i>multiplex</i>	A			
50	CPMRE	<i>Coprosma repens</i>	Xf subsp. <i>multiplex</i>	A			
51	CZRVL	<i>Coronilla valentina</i>	Xf subsp. <i>multiplex</i>	A			
52	CZRVG	<i>Coronilla valentina</i> subsp. <i>glauca</i>	Xf subsp. <i>multiplex</i>	A			
53	SAOSC	<i>Cytisus scoparius</i>	Xf subsp. <i>multiplex</i>	A			
54	CZSSS	<i>Cytisus</i> sp.	Xf subsp. <i>multiplex</i>	A			
55	CC274A	<i>Cytisus spinosa</i>	Xf subsp. <i>multiplex</i>	A			
56	CZSVI	<i>Cytisus villosus</i>	Xf subsp. <i>multiplex</i>	A			
57	OSPEK	<i>Dimorphotheca ecklonis</i>	Xf subsp. <i>multiplex</i>	A			
58	OSPFR	<i>Dimorphotheca fruticosa</i>	Xf subsp. <i>multiplex</i>	A			
59	DODVI	<i>Dodonaea viscosa</i>	Xf subsp. <i>multiplex</i>	A			
60	EHIPL	<i>Echium plantagineum</i>	Xf subsp. <i>multiplex</i>	A			
61	ELGAN	<i>Elaeagnus angustifolia</i>	Xf subsp. <i>multiplex</i>	A			
62	ELGEB	<i>Elaeagnus</i> x <i>submacrophylla</i>	Xf subsp. <i>multiplex</i>	A			
63	ENCFA	<i>Encelia farinosa</i>	Xf subsp. <i>multiplex</i>	A			
64	EIACN	<i>Erica cinerea</i>	Xf subsp. <i>multiplex</i>	A			
65	ERICA	<i>Erigeron canadensis</i>	Xf subsp. <i>multiplex</i>	A			
66	ERIKA	<i>Erigeron karvinskianus</i>	Xf subsp. <i>multiplex</i>	A			
67	ERQUM	<i>Eriocephalus africanus</i>	Xf subsp. <i>multiplex</i>	A			

68	EROMO	<i>Erodium moschatum</i>	Xf subsp. <i>multiplex</i>	A			
69	EYOCH	<i>Euryops chrysanthemoides</i>	Xf subsp. <i>multiplex</i>	A			
70	EYOPE	<i>Euryops pectinatus</i>	Xf subsp. <i>multiplex</i>	A			
71	POLCU	<i>Fallopia japonica</i>	Xf subsp. <i>multiplex</i>	A			
72	FIUCA	<i>Ficus carica</i>	Xf subsp. <i>multiplex</i>	A			
73	RHAFR	<i>Frangula alnus</i>	Xf subsp. <i>multiplex</i>	A			
74	FRXAM	<i>Fraxinus americana</i>	Xf subsp. <i>multiplex</i>	A			
75	FRXAN	<i>Fraxinus angustifolia</i>	Xf subsp. <i>multiplex</i>	A			
76	FRXSS	<i>Fraxinus</i> sp.	Xf subsp. <i>multiplex</i>	A			
77	GAZRI	<i>Gazania rigens</i>	Xf subsp. <i>multiplex</i>	A			
78	GENCO	<i>Genista corsica</i>	Xf subsp. <i>multiplex</i>	A			
79	GENEP	<i>Genista ephedroides</i>	Xf subsp. <i>multiplex</i>	A			
80	GENSC	<i>Genista scorpius</i>	Xf subsp. <i>multiplex</i>	A			
81	GENSS	<i>Genista</i> sp.	Xf subsp. <i>multiplex</i>	A			
82	QEMTR	<i>Genista tridentata</i>	Xf subsp. <i>multiplex</i>	A			
83	CC279A	<i>Genista valdes-bermejoi</i>	Xf subsp. <i>multiplex</i>	A			
84	GENSA	<i>Genista</i> x <i>spachiana</i>	Xf subsp. <i>multiplex</i>	A			
85	GIKBI	<i>Ginkgo biloba</i>	Xf subsp. <i>multiplex</i>	A			
86	GLITR	<i>Gleditsia triacanthos</i>	Xf subsp. <i>multiplex</i>	A			
87	GREJU	<i>Grevillea juniperina</i>	Xf subsp. <i>multiplex</i>	A			
88	HBEEL	<i>Hebe elliptica</i>	Xf subsp. <i>multiplex</i>	A			
89	HBESS	<i>Hebe</i> sp.	Xf subsp. <i>multiplex</i>	A			
90	HELAN	<i>Helianthus annuus</i>	Xf subsp. <i>multiplex</i>	A			
91	HELSS	<i>Helianthus</i> sp.	Xf subsp. <i>multiplex</i>	A			
92	HECIT	<i>Helichrysum italicum</i>	Xf subsp. <i>multiplex</i>	A			
93	HECSS	<i>Helichrysum</i> sp.	Xf subsp. <i>multiplex</i>	A			
94	HECST	<i>Helichrysum stoechas</i>	Xf subsp. <i>multiplex</i>	A			
95	HIBSY	<i>Hibiscus syriacus</i>	Xf subsp. <i>multiplex</i>	A			

96	HYPAN	<i>Hypericum androsaemum</i>	Xf subsp. <i>multiplex</i>	A			
97	HYPPE	<i>Hypericum perforatum</i>	Xf subsp. <i>multiplex</i>	A			
98	ILEAQ	<i>Ilex aquifolium</i>	Xf subsp. <i>multiplex</i>	A			
99	INUVI	<i>Dittrichia viscosa</i>	Xf subsp. <i>multiplex</i>	A			
100	IVAAN	<i>Iva annua</i>	Xf subsp. <i>multiplex</i>	A			
101	SENBI	<i>Jacobaea maritima</i>	Xf subsp. <i>multiplex</i>	A			
102	KOTBI	<i>Koelreuteria bipinnata</i>	Xf subsp. <i>multiplex</i>	A			
103	LAEin	<i>Lagerstroemia indica</i>	Xf subsp. <i>multiplex</i>	A			
104	LAESS	<i>Lagerstroemia</i> sp.	Xf subsp. <i>multiplex</i>	A			
105	LURNO	<i>Laurus nobilis</i>	Xf subsp. <i>multiplex</i>	A			
106	LAVAN	<i>Lavandula angustifolia</i>	Xf subsp. <i>multiplex</i>	A			
107	LAVDE	<i>Lavandula dentata</i>	Xf subsp. <i>multiplex</i>	A			
108	LAVLA	<i>Lavandula latifolia</i>	Xf subsp. <i>multiplex</i>	A			
109	LAVSS	<i>Lavandula</i> sp.	Xf subsp. <i>multiplex</i>	A			
110	LAVST	<i>Lavandula stoechas</i>	Xf subsp. <i>multiplex</i>	A			
111	LAVHE	<i>Lavandula</i> x <i>heterophylla</i>	Xf subsp. <i>multiplex</i>	A			
112	LAVIN	<i>Lavandula</i> x <i>intermedia</i>	Xf subsp. <i>multiplex</i>	A			
113	LVACR	<i>Lavatera cretica</i>	Xf subsp. <i>multiplex</i>	A			
114	LIQST	<i>Liquidambar styraciflua</i>	Xf subsp. <i>multiplex</i>	A			
115	LONIM	<i>Lonicera implexa</i>	Xf subsp. <i>multiplex</i>	A			
116	LONJA	<i>Lonicera japonica</i>	Xf subsp. <i>multiplex</i>	A			
117	LUPAD	<i>Lupinus aridorum</i>	Xf subsp. <i>multiplex</i>	A			
118	LUPVI	<i>Lupinus villosus</i>	Xf subsp. <i>multiplex</i>	A			
119	MAGGR	<i>Magnolia grandiflora</i>	Xf subsp. <i>multiplex</i>	A			
120	MAGSO	<i>Magnolia</i> x <i>soulangeana</i>	Xf subsp. <i>multiplex</i>	A			
121	MEDAR	<i>Medicago arborea</i>	Xf subsp. <i>multiplex</i>	A			
122	MEDSA	<i>Medicago sativa</i>	Xf subsp. <i>multiplex</i>	A			
123	MTDEX	<i>Metrosideros excelsa</i>	Xf subsp. <i>multiplex</i>	A			

124	MTDSS	<i>Metrosideros</i> sp.	Xf subsp. <i>multiplex</i>	A			
125	MYMLA	<i>Myoporum laetum</i>	Xf subsp. <i>multiplex</i>	A			
126	MYMSS	<i>Myoporum</i> sp.	Xf subsp. <i>multiplex</i>	A			
127	MYVCO	<i>Myrtus communis</i>	Xf subsp. <i>multiplex</i>	A			
128	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>multiplex</i>	A			
129	OLVEU	<i>Olea europaea</i>	Xf subsp. <i>multiplex</i>	A			
130	OLVES	<i>Olea europaea</i> subsp. <i>sylvestris</i>	Xf subsp. <i>multiplex</i>	A			
131	OLVSS	<i>Olea</i> sp.	Xf subsp. <i>multiplex</i>	A			
132	PELGV	<i>Pelargonium graveolens</i>	Xf subsp. <i>multiplex</i>	A			
133	PELSS	<i>Pelargonium</i> sp.	Xf subsp. <i>multiplex</i>	A			
134	PEKAB	<i>Perovskia abrotanoides</i>	Xf subsp. <i>multiplex</i>	A			
135	PGASA	<i>Phagnalon saxatile</i>	Xf subsp. <i>multiplex</i>	A			
136	PLRAN	<i>Phillyrea angustifolia</i>	Xf subsp. <i>multiplex</i>	A			
137	PLMFR	<i>Phlomis fruticosa</i>	Xf subsp. <i>multiplex</i>	A			
138	PLMIT	<i>Phlomis italica</i>	Xf subsp. <i>multiplex</i>	A			
139	PIAVE	<i>Pistacia vera</i>	Xf subsp. <i>multiplex</i>	A			
140	PLALA	<i>Plantago lanceolata</i>	Xf subsp. <i>multiplex</i>	A			
141	PLTOC	<i>Platanus occidentalis</i>	Xf subsp. <i>multiplex</i>	A			
142	PLTSS	<i>Platanus</i> sp.	Xf subsp. <i>multiplex</i>	A			
143	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. <i>multiplex</i>	A			
144	CC207A	<i>Polygala x grandiflora nana</i>	Xf subsp. <i>multiplex</i>	A			
145	PRNAR	<i>Prunus armeniaca</i>	Xf subsp. <i>multiplex</i>	A			
146	PRNAV	<i>Prunus avium</i>	Xf subsp. <i>multiplex</i>	A			
147	PRNCF	<i>Prunus cerasifera</i>	Xf subsp. <i>multiplex</i>	A			
148	PRNCE	<i>Prunus cerasus</i>	Xf subsp. <i>multiplex</i>	A			
149	PRNDO	<i>Prunus domestica</i>	Xf subsp. <i>multiplex</i>	A			
150	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>multiplex</i>	A			
151	PRNLR	<i>Prunus laurocerasus</i>	Xf subsp. <i>multiplex</i>	A			

152	PRNME	<i>Prunus mexicana</i>	Xf subsp. <i>multiplex</i>	A			
153	PRNPS	<i>Prunus persica</i>	Xf subsp. <i>multiplex</i>	A			
154	PRNSC	<i>Prunus salicina</i>	Xf subsp. <i>multiplex</i>	A			
155	PRNSS	<i>Prunus</i> sp.	Xf subsp. <i>multiplex</i>	A			
156	PTEAQ	<i>Pteridium aquilinum</i>	Xf subsp. <i>multiplex</i>	A			
157	QUECO	<i>Quercus coccinea</i>	Xf subsp. <i>multiplex</i>	A			
158	QUEFC	<i>Quercus falcata</i>	Xf subsp. <i>multiplex</i>	A			
159	QUEIL	<i>Quercus ilex</i>	Xf subsp. <i>multiplex</i>	A			
160	QUELA	<i>Quercus laevis</i>	Xf subsp. <i>multiplex</i>	A			
161	QUEMC	<i>Quercus macrocarpa</i>	Xf subsp. <i>multiplex</i>	A			
162	QUENI	<i>Quercus nigra</i>	Xf subsp. <i>multiplex</i>	A			
163	QUEPA	<i>Quercus palustris</i>	Xf subsp. <i>multiplex</i>	A			
164	QUEPH	<i>Quercus phellos</i>	Xf subsp. <i>multiplex</i>	A			
165	QUEPU	<i>Quercus pubescens</i>	Xf subsp. <i>multiplex</i>	A			
166	QUERO	<i>Quercus robur</i>	Xf subsp. <i>multiplex</i>	A			
167	QUERU	<i>Quercus rubra</i>	Xf subsp. <i>multiplex</i>	A			
168	QUESH	<i>Quercus shumardii</i>	Xf subsp. <i>multiplex</i>	A			
169	QUESS	<i>Quercus</i> sp.	Xf subsp. <i>multiplex</i>	A			
170	QUESU	<i>Quercus suber</i>	Xf subsp. <i>multiplex</i>	A			
171	RATCO	<i>Ratibida columnifera</i>	Xf subsp. <i>multiplex</i>	A			
172	LGOMO	<i>Retama monosperma</i>	Xf subsp. <i>multiplex</i>	A			
173	RHAAL	<i>Rhamnus alaternus</i>	Xf subsp. <i>multiplex</i>	A			
174	RHASS	<i>Rhamnus</i> sp.	Xf subsp. <i>multiplex</i>	A			
175	ROBPS	<i>Robinia pseudoacacia</i>	Xf subsp. <i>multiplex</i>	A			
176	ROSCN	<i>Rosa canina</i>	Xf subsp. <i>multiplex</i>	A			
177	ROSSS	<i>Rosa</i> sp.	Xf subsp. <i>multiplex</i>	A			
178	RUBSS	<i>Rubus</i> sp.	Xf subsp. <i>multiplex</i>	A			
179	RUBUL	<i>Rubus ulmifolius</i>	Xf subsp. <i>multiplex</i>	A			



180	RUAGR	<i>Ruta graveolens</i>	Xf subsp. <i>multiplex</i>	A				
181	SALMF	<i>Salvia mellifera</i>	Xf subsp. <i>multiplex</i>	A				
182	SALOF	<i>Salvia officinalis</i>	Xf subsp. <i>multiplex</i>	A				
183	RMSOF	<i>Salvia rosmarinus</i>	Xf subsp. <i>multiplex</i>	A				
184	SALSS	<i>Salvia</i> sp.	Xf subsp. <i>multiplex</i>	A				
185	SAMNI	<i>Sambucus nigra</i>	Xf subsp. <i>multiplex</i>	A				
186	SAMSS	<i>Sambucus</i> sp.	Xf subsp. <i>multiplex</i>	A				
187	SNTCH	<i>Santolina chamaecyparissus</i>	Xf subsp. <i>multiplex</i>	A				
188	SNTMA	<i>Santolina magonica</i>	Xf subsp. <i>multiplex</i>	A				
189	SNTSS	<i>Santolina</i> sp.	Xf subsp. <i>multiplex</i>	A				
190	SAKSA	<i>Sapindus saponaria</i>	Xf subsp. <i>multiplex</i>	A				
191	SXLAM	<i>Scabiosa atropurpurea</i> var. <i>maritima</i>	Xf subsp. <i>multiplex</i>	A				
192	SOOVI	<i>Solidago virgaurea</i>	Xf subsp. <i>multiplex</i>	A				
193	SPUJU	<i>Spartium junceum</i>	Xf subsp. <i>multiplex</i>	A				
194	SPUSS	<i>Spartium</i> sp.	Xf subsp. <i>multiplex</i>	A				
195	STZRE	<i>Strelitzia reginae</i>	Xf subsp. <i>multiplex</i>	A				
196	SYRVU	<i>Syringa vulgaris</i>	Xf subsp. <i>multiplex</i>	A				
197	ULEEU	<i>Ulex europaeus</i>	Xf subsp. <i>multiplex</i>	A				
198	ULEMI	<i>Ulex minor</i>	Xf subsp. <i>multiplex</i>	A				
199	ULEPA	<i>Ulex parviflorus</i>	Xf subsp. <i>multiplex</i>	A				
200	ULESS	<i>Ulex</i> sp.	Xf subsp. <i>multiplex</i>	A				
201	ULMAM	<i>Ulmus americana</i>	Xf subsp. <i>multiplex</i>	A				
202	ULMCR	<i>Ulmus crassifolia</i>	Xf subsp. <i>multiplex</i>	A				
203	ULMSS	<i>Ulmus</i> sp.	Xf subsp. <i>multiplex</i>	A				
204	VACAH	<i>Vaccinium ashei</i>	Xf subsp. <i>multiplex</i>	A				
205	VACCO	<i>Vaccinium corymbosum</i>	Xf subsp. <i>multiplex</i>	A				
206	VACSS	<i>Vaccinium</i> sp.	Xf subsp. <i>multiplex</i>	A				

207	VIBTI	<i>Viburnum tinus</i>	Xf subsp. <i>multiplex</i>	A				
208	VINMA	<i>Vinca major</i>	Xf subsp. <i>multiplex</i>	A				
209	VINSS	<i>Vinca</i> sp.	Xf subsp. <i>multiplex</i>	A				
210	VIXAC	<i>Vitex agnus-castus</i>	Xf subsp. <i>multiplex</i>	A				
211	WESRO	<i>Westringia fruticosa</i>	Xf subsp. <i>multiplex</i>	A				
212	XANST	<i>Xanthium strumarium</i>	Xf subsp. <i>multiplex</i>	A				
213	ACRPL	<i>Acer platanoides</i>	Xf subsp. <i>multiplex</i>			C		
214	CCOSS	<i>Calicotome</i> sp.	Xf subsp. <i>multiplex</i>			C		
215	CSTIS	<i>Cistus x incanus</i>	Xf subsp. <i>multiplex</i>			C		
216	LIRTU	<i>Liriodendron tulipifera</i>	Xf subsp. <i>multiplex</i>			C		
217	POGSS	<i>Polygala</i> sp.	Xf subsp. <i>multiplex</i>			C		
218	CC206A	<i>Polygala x dalmaisiana</i>	Xf subsp. <i>multiplex</i>			C		
219	VITVI	<i>Vitis vinifera</i>	Xf subsp. <i>multiplex</i>			C		

<b>N</b>	<b>Plant EPPO code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	ACASA	<i>Acacia saligna</i>	Xf subsp. <i>pauca</i>	A				
2	ACASS	<i>Acacia</i> sp.	Xf subsp. <i>pauca</i>	A				
3	AMARE	<i>Amaranthus retroflexus</i>	Xf subsp. <i>pauca</i>	A				
4	CC135A	Periwinkle (common name)	Xf subsp. <i>pauca</i>	A				
5	ASPAC	<i>Asparagus acutifolius</i>	Xf subsp. <i>pauca</i>	A				
6	CTURO	<i>Catharanthus roseus</i>	Xf subsp. <i>pauca</i>	A				
7	CHEAL	<i>Chenopodium album</i>	Xf subsp. <i>pauca</i>	A				
8	CSTAL	<i>Cistus albidus</i>	Xf subsp. <i>pauca</i>	A				
9	CSTIC	<i>Cistus creticus</i>	Xf subsp. <i>pauca</i>	A				
10	CIDSI	<i>Citrus sinensis</i>	Xf subsp. <i>pauca</i>	A				
11	CIDSS	<i>Citrus</i> sp.	Xf subsp. <i>pauca</i>	A				
12	COFAR	<i>Coffea arabica</i>	Xf subsp. <i>pauca</i>	A				
13	COFSS	<i>Coffea</i> sp.	Xf subsp. <i>pauca</i>	A				

14	OSPFR	<i>Dimorphotheca fruticosa</i>	Xf subsp. <i>pauca</i>	A			
15	DODVI	<i>Dodonaea viscosa</i>	Xf subsp. <i>pauca</i>	A			
16	ELGAN	<i>Elaeagnus angustifolia</i>	Xf subsp. <i>pauca</i>	A			
17	EMHMA	<i>Eremophila maculata</i>	Xf subsp. <i>pauca</i>	A			
18	ERIBO	<i>Erigeron bonariensis</i>	Xf subsp. <i>pauca</i>	A			
19	ERISS	<i>Erigeron</i> sp.	Xf subsp. <i>pauca</i>	A			
20	ERISU	<i>Erigeron sumatrensis</i>	Xf subsp. <i>pauca</i>	A			
21	EPHCH	<i>Euphorbia chamaesyce</i>	Xf subsp. <i>pauca</i>	A			
22	EPHTE	<i>Euphorbia terracina</i>	Xf subsp. <i>pauca</i>	A			
23	GENHS	<i>Genista hirsuta</i>	Xf subsp. <i>pauca</i>	A			
24	GREJU	<i>Grevillea juniperina</i>	Xf subsp. <i>pauca</i>	A			
25	HBESS	<i>Hebe</i> sp.	Xf subsp. <i>pauca</i>	A			
26	HEOEU	<i>Heliotropium europaeum</i>	Xf subsp. <i>pauca</i>	A			
27	HIBRS	<i>Hibiscus rosa-sinensis</i>	Xf subsp. <i>pauca</i>	A			
28	HIBSS	<i>Hibiscus</i> sp.	Xf subsp. <i>pauca</i>	A			
29	LURNO	<i>Laurus nobilis</i>	Xf subsp. <i>pauca</i>	A			
30	LAVAN	<i>Lavandula angustifolia</i>	Xf subsp. <i>pauca</i>	A			
31	LAVDE	<i>Lavandula dentata</i>	Xf subsp. <i>pauca</i>	A			
32	LAVSS	<i>Lavandula</i> sp.	Xf subsp. <i>pauca</i>	A			
33	LAVST	<i>Lavandula stoechas</i>	Xf subsp. <i>pauca</i>	A			
34	MYMIN	<i>Myoporum insulare</i>	Xf subsp. <i>pauca</i>	A			
35	MYVCO	<i>Myrtus communis</i>	Xf subsp. <i>pauca</i>	A			
36	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>pauca</i>	A			
37	OLVEU	<i>Olea europaea</i>	Xf subsp. <i>pauca</i>	A			
38	OLVES	<i>Olea europaea</i> subsp. <i>sylvestris</i>	Xf subsp. <i>pauca</i>	A			
39	PELFR	<i>Pelargonium fragrans</i>	Xf subsp. <i>pauca</i>	A			
40	PELSS	<i>Pelargonium</i> sp.	Xf subsp. <i>pauca</i>	A			
41	PLRLA	<i>Phillyrea latifolia</i>	Xf subsp. <i>pauca</i>	A			

42	PIAVE	<i>Pistacia vera</i>	Xf subsp. <i>pauca</i>	A				
43	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. <i>pauca</i>	A				
45	PRNAV	<i>Prunus avium</i>	Xf subsp. <i>pauca</i>	A				
46	PRNDO	<i>Prunus domestica</i>	Xf subsp. <i>pauca</i>	A				
47	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>pauca</i>	A				
49	PRNSS	<i>Prunus</i> sp.	Xf subsp. <i>pauca</i>	A				
51	RHAAL	<i>Rhamnus alaternus</i>	Xf subsp. <i>pauca</i>	A				
53	RMSOF	<i>Salvia rosmarinus</i>	Xf subsp. <i>pauca</i>	A				
54	SPUJU	<i>Spartium junceum</i>	Xf subsp. <i>pauca</i>	A				
55	THYVU	<i>Thymus vulgaris</i>	Xf subsp. <i>pauca</i>	A				
56	ULEPA	<i>Ulex parviflorus</i>	Xf subsp. <i>pauca</i>	A				
57	VINMI	<i>Vinca minor</i>	Xf subsp. <i>pauca</i>	A				
58	WESRO	<i>Westringia fruticosa</i>	Xf subsp. <i>pauca</i>	A				
59	WESGL	<i>Westringia glabra</i>	Xf subsp. <i>pauca</i>	A				
44	POGSS	<i>Polygala</i> sp.	Xf subsp. <i>pauca</i>			C		
48	PRNPS	<i>Prunus persica</i>	Xf subsp. <i>pauca</i>			C		
50	QUEIL	<i>Quercus ilex</i>	Xf subsp. <i>pauca</i>			C		
52	SALOF	<i>Salvia officinalis</i>	Xf subsp. <i>pauca</i>			C		
N	Plant EPO code	Plant Species	Pest	Category A	Category B	Category C	Category D	Category E
1	MORAL	<i>Morus alba</i>	Xf subsp. <i>morus</i>	A				
2	MORRU	<i>Morus rubra</i>	Xf subsp. <i>morus</i>	A				
3	MORSS	<i>Morus</i> sp.	Xf subsp. <i>morus</i>	A				
4	NANDO	<i>Nandina domestica</i>	Xf subsp. <i>morus</i>	A				
N	Plant EPO code	Plant Species	Pest	Category A	Category B	Category C	Category D	Category E
1	COFAR	<i>Coffea arabica</i>	Xf subsp. <i>sandyi</i>	A				
2	COFSS	<i>Coffea</i> sp.	Xf subsp. <i>sandyi</i>	A				
3	HEGSS	<i>Hemerocallis</i> sp.	Xf subsp. <i>sandyi</i>	A				

4	IACMI	<i>Jacaranda mimosifolia</i>	Xf subsp. <i>sandyi</i>	A				
5	MAGGR	<i>Magnolia grandiflora</i>	Xf subsp. <i>sandyi</i>	A				
6	NANDO	<i>Nandina domestica</i>	Xf subsp. <i>sandyi</i>	A				
7	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>sandyi</i>	A				
8	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. <i>sandyi</i>			C		
<b>N</b>	<b>Plant EPPO code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	CXKTA	<i>Chitalpa tashkentensis</i>	Xf subsp. <i>tashke</i>	A				
<b>N</b>	<b>Plant EPPO code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	COFAR	<i>Coffea arabica</i>	Xf subsp. <i>fastidiosa/sandyi</i>	A				
2	COFCA	<i>Coffea canephora</i>	Xf subsp. <i>fastidiosa/sandyi</i>	A				
<b>N</b>	<b>Plant EPPO code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	PYUPY	<i>Pyrus pyrifolia</i>	<i>Xylella taiwanensis</i>	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 and 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 and 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 EPPO Code	Plant Species	Pest	Category A	Category B	Category C	Category D	Category E
1	ACRMA	<i>Acer macrophyllum</i>	Xf subsp. unknown	A				
2	ACRNE	<i>Acer negundo</i>	Xf subsp. unknown	A				
3	AECCA	<i>Aesculus californica</i>	Xf subsp. unknown	A				
4	ALURH	<i>Alnus rhombifolia</i>	Xf subsp. unknown	A				
5	AMBEL	<i>Ambrosia artemisiifolia</i>	Xf subsp. unknown	A				
6	AMBSS	<i>Ambrosia</i> sp.	Xf subsp. unknown	A				
7	CC135A	Periwinkle (common name)	Xf subsp. unknown	A				
8	ARBTH	<i>Arabidopsis thaliana</i>	Xf subsp. unknown	A				
9	ARTDO	<i>Artemisia douglasiana</i>	Xf subsp. unknown	A				
10	BACPI	<i>Baccharis pilularis</i>	Xf subsp. unknown	A				
11	BACSF	<i>Baccharis salicifolia</i>	Xf subsp. unknown	A				
12	BRSNI	<i>Brassica nigra</i>	Xf subsp. unknown	A				
13	CYAIL	<i>Carya illinoensis</i>	Xf subsp. unknown	A				
14	CTURO	<i>Catharanthus roseus</i>	Xf subsp. unknown	A				

15	CIDAF	<i>Citrus aurantiifolia</i>	Xf subsp. unknown	A			
16	CIDCL	<i>Citrus dementina</i>	Xf subsp. unknown	A			
17	CC153A	<i>Citrus dementina</i> x <i>C. sinensis</i>	Xf subsp. unknown	A			
18	CIDJA	<i>Citrus jambhiri</i>	Xf subsp. unknown	A			
19	CIDRH	<i>Citrus reshni</i>	Xf subsp. unknown	A			
20	CIDRE	<i>Citrus reticulata</i>	Xf subsp. unknown	A			
21	CIDSI	<i>Citrus sinensis</i>	Xf subsp. unknown	A			
22	CIDSS	<i>Citrus</i> sp.	Xf subsp. unknown	A			
23	CIDRA	<i>Citrus sunki</i>	Xf subsp. unknown	A			
24	CIDUN	<i>Citrus unshiu</i>	Xf subsp. unknown	A			
25	CIDLO	<i>Citrus</i> x <i>limonia</i>	Xf subsp. unknown	A			
26	CIDNO	<i>Citrus</i> x <i>nobilis</i>	Xf subsp. unknown	A			
27	COFAR	<i>Coffea arabica</i>	Xf subsp. unknown	A			
28	COFSS	<i>Coffea</i> sp.	Xf subsp. unknown	A			
29	COIMA	<i>Conium maculatum</i>	Xf subsp. unknown	A			
30	CPMRE	<i>Coprosma repens</i>	Xf subsp. unknown	A			
31	CORSA	<i>Coriandrum sativum</i>	Xf subsp. unknown	A			
32	CYPER	<i>Cyperus eragrostis</i>	Xf subsp. unknown	A			
33	ECHCG	<i>Echinochloa crus-galli</i>	Xf subsp. unknown	A			
34	FAGES	<i>Fagopyrum esculentum</i>	Xf subsp. unknown	A			
35	FRXLA	<i>Fraxinus latifolia</i>	Xf subsp. unknown	A			
36	CC181A	<i>Hakea petiolaris</i>	Xf subsp. unknown	A			
37	HEEHE	<i>Hedera helix</i>	Xf subsp. unknown	A			
38	LOUMA	<i>Lobularia maritima</i>	Xf subsp. unknown	A			
39	MEDSA	<i>Medicago sativa</i>	Xf subsp. unknown	A			
40	MORAL	<i>Morus alba</i>	Xf subsp. unknown	A			
41	MORSS	<i>Morus</i> sp.	Xf subsp. unknown	A			
42	NEROL	<i>Nerium oleander</i>	Xf subsp. unknown	A			

43	NIOBE	<i>Nicotiana benthamiana</i>	Xf subsp. unknown	A			
44	NIOTA	<i>Nicotiana tabacum</i>	Xf subsp. unknown	A			
45	PRTQU	<i>Parthenocissus quinquefolia</i>	Xf subsp. unknown	A			
46	PEBAM	<i>Persea americana</i>	Xf subsp. unknown	A			
47	PLTOC	<i>Platanus occidentalis</i>	Xf subsp. unknown	A			
48	POPFR	<i>Populus fremontii</i>	Xf subsp. unknown	A			
49	PRNCF	<i>Prunus cerasifera</i>	Xf subsp. unknown	A			
50	PRNDU	<i>Prunus dulcis</i>	Xf subsp. unknown	A			
51	PRNPS	<i>Prunus persica</i>	Xf subsp. unknown	A			
52	PRNSC	<i>Prunus salicina</i>	Xf subsp. unknown	A			
53	PRNSS	<i>Prunus</i> sp.	Xf subsp. unknown	A			
54	PYUPY	<i>Pyrus pyrifolia</i>	Xf subsp. unknown	A			
55	QUEAG	<i>Quercus agrifolia</i>	Xf subsp. unknown	A			
56	QUELO	<i>Quercus lobata</i>	Xf subsp. unknown	A			
57	QUERU	<i>Quercus rubra</i>	Xf subsp. unknown	A			
58	RHUDI	<i>Rhus diversiloba</i>	Xf subsp. unknown	A			
59	ROSCA	<i>Rosa californica</i>	Xf subsp. unknown	A			
60	RUBHP	<i>Rubus hedycarpus</i> subsp. <i>procerus</i>	Xf subsp. unknown	A			
61	RUBDI	<i>Rubus rigidus</i>	Xf subsp. unknown	A			
62	RUBUR	<i>Rubus ursinus</i>	Xf subsp. unknown	A			
63	SAXLG	<i>Salix laevigata</i>	Xf subsp. unknown	A			
64	SAXLL	<i>Salix lasiolepis</i>	Xf subsp. unknown	A			
65	SALAP	<i>Salvia apiana</i>	Xf subsp. unknown	A			
66	SALMF	<i>Salvia mellifera</i>	Xf subsp. unknown	A			
67	SAMCN	<i>Sambucus canadensis</i>	Xf subsp. unknown	A			
68	SAMSS	<i>Sambucus</i> sp.	Xf subsp. unknown	A			
69	SPUJU	<i>Spartium junceum</i>	Xf subsp. unknown	A			
70	SWAGA	<i>Swainsona galegifolia</i>	Xf subsp. unknown	A			



71	SYPAL	<i>Symphoricarpos albus</i>	Xf subsp. unknown	A			
72	TLNMO	<i>Teline monspessulana</i>	Xf subsp. unknown	A			
73	ULMAM	<i>Ulmus americana</i>	Xf subsp. unknown	A			
74	UMBCA	<i>Umbellularia californica</i>	Xf subsp. unknown	A			
75	URTDI	<i>Urtica dioica</i>	Xf subsp. unknown	A			
76	VACCO	<i>Vaccinium corymbosum</i>	Xf subsp. unknown	A			
77	VACSS	<i>Vaccinium</i> sp.	Xf subsp. unknown	A			
78	VICSA	<i>Vicia sativa</i>	Xf subsp. unknown	A			
79	VINMA	<i>Vinca major</i>	Xf subsp. unknown	A			
80	VINMI	<i>Vinca minor</i>	Xf subsp. unknown	A			
81	CC229A	<i>Vitis arizonica</i> x <i>V. rupestris</i>	Xf subsp. unknown	A			
82	CC233A	<i>Vitis arizonica/candicans</i> x <i>V. rupestris</i>	Xf subsp. unknown	A			
83	VITCL	<i>Vitis californica</i>	Xf subsp. unknown	A			
84	CC241A	<i>Vitis labrusca</i> x <i>V. vinifera</i>	Xf subsp. unknown	A			
85	VITRF	<i>Vitis rotundifolia</i>	Xf subsp. unknown	A			
86	CC244A	<i>Vitis rotundifolia</i> x <i>V. rupestris</i>	Xf subsp. unknown	A			
87	VITRU	<i>Vitis rupestris</i>	Xf subsp. unknown	A			
88	VITSS	<i>Vitis</i> sp.	Xf subsp. unknown	A			
89	VITVI	<i>Vitis vinifera</i>	Xf subsp. unknown	A			
90	MORRU	<i>Morus rubra</i>	Xf subsp. unknown		B		
91	PRNDO	<i>Prunus domestica</i>	Xf subsp. unknown		B		
92	CC232A	<i>Vitis arizonica/candicans</i>	Xf subsp. unknown		B		
93	CC249A	<i>Vitis aestivalis</i> var. <i>smalliana</i>	Xf subsp. unknown		B		
94	CC256A	<i>Vitis rufotomentosa</i>	Xf subsp. unknown		B		
95	FRSAC	<i>Ambrosia acanthicarpa</i>	Xf subsp. unknown			C	
96	AMBT	<i>Ambrosia trifida</i> var. <i>texana</i>	Xf subsp. unknown			C	
97	AMSDO	<i>Amsinckia douglasiana</i>	Xf subsp. unknown			C	

98	BRORI	<i>Anisantha rigida</i>	Xf subsp. unknown			C	
99	AVEFA	<i>Avena fatua</i>	Xf subsp. unknown			C	
100	BRAPL	<i>Brachiaria plantaginea</i>	Xf subsp. unknown			C	
101	BROSS	<i>Bromus</i> sp.	Xf subsp. unknown			C	
102	CSPCH	<i>Callistephus chinensis</i>	Xf subsp. unknown			C	
103	CNNS	<i>Canna</i> sp.	Xf subsp. unknown			C	
104	BROCA	<i>Ceratochloa cathartica</i>	Xf subsp. unknown			C	
105	CC154A	<i>Citrus deliciosa</i> x <i>C. sinensis</i>	Xf subsp. unknown			C	
106	CIDME	<i>Citrus medica</i>	Xf subsp. unknown			C	
107	CIDTG	<i>Citrus tangerina</i>	Xf subsp. unknown			C	
108	CIDRP	<i>Citrus</i> x <i>tangelo</i>	Xf subsp. unknown			C	
109	GODGR	<i>Clarkia amoena</i> subsp. <i>lindleyi</i>	Xf subsp. unknown			C	
110	CPMBA	<i>Coprosma baueri</i>	Xf subsp. unknown			C	
111	CTTRT	<i>Cotoneaster rotundifolius</i>	Xf subsp. unknown			C	
112	CYNDA	<i>Cynodon dactylon</i>	Xf subsp. unknown			C	
113	CYPES	<i>Cyperus esculentus</i>	Xf subsp. unknown			C	
114	SAOSC	<i>Cytisus scoparius</i>	Xf subsp. unknown			C	
115	DAUCS	<i>Daucus carota</i> subsp. <i>sativus</i>	Xf subsp. unknown			C	
116	DIGSA	<i>Digitaria sanguinalis</i>	Xf subsp. unknown			C	
117	CHEAM	<i>Dysphania ambrosioides</i>	Xf subsp. unknown			C	
118	EIPIC	<i>Epilobium brachycarpum</i>	Xf subsp. unknown			C	
119	EPICT	<i>Epilobium ciliatum</i>	Xf subsp. unknown			C	
120	ERADF	<i>Eragrostis diffusa</i>	Xf subsp. unknown			C	
121	EROCI	<i>Erodium cicutarium</i>	Xf subsp. unknown			C	
122	POLCO	<i>Fallopia convolvulus</i>	Xf subsp. unknown			C	
123	GREAL	<i>Grevillea alpina</i>	Xf subsp. unknown			C	
124	HELAN	<i>Helianthus annuus</i>	Xf subsp. unknown			C	
125	HORMU	<i>Hordeum murinum</i>	Xf subsp. unknown			C	

126	HORVX	<i>Hordeum vulgare</i>	Xf subsp. unknown			C	
127	IVAAN	<i>Iva annua</i>	Xf subsp. unknown			C	
128	LACSE	<i>Lactuca serriola</i>	Xf subsp. unknown			C	
129	LTHCI	<i>Lathyrus cicera</i>	Xf subsp. unknown			C	
130	LTHCL	<i>Lathyrus clymenum</i>	Xf subsp. unknown			C	
131	LTHSA	<i>Lathyrus sativus</i>	Xf subsp. unknown			C	
132	LEKLA	<i>Leptospermum laevigatum</i>	Xf subsp. unknown			C	
133	LOLMU	<i>Lolium multiflorum</i>	Xf subsp. unknown			C	
134	LOLTE	<i>Lolium temulentum</i>	Xf subsp. unknown			C	
135	LONJA	<i>Lonicera japonica</i>	Xf subsp. unknown			C	
136	MEUAL	<i>Melilotus albus</i>	Xf subsp. unknown			C	
137	MEUAA	<i>Melilotus albus</i> var. <i>annuus</i>	Xf subsp. unknown			C	
138	MEUIN	<i>Melilotus indicus</i>	Xf subsp. unknown			C	
139	MEUOF	<i>Melilotus officinalis</i>	Xf subsp. unknown			C	
140	MENSS	<i>Mentha</i> sp.	Xf subsp. unknown			C	
141	OENSA	<i>Oenanthe sarmentosa</i>	Xf subsp. unknown			C	
142	OEOEL	<i>Oenothera elata</i>	Xf subsp. unknown			C	
143	OLVEU	<i>Olea europaea</i>	Xf subsp. unknown			C	
144	PRTRR	<i>Parthenocissus tricuspidata</i>	Xf subsp. unknown			C	
145	PASDI	<i>Paspalum dilatatum</i>	Xf subsp. unknown			C	
146	PELZO	<i>Pelargonium x hortorum</i>	Xf subsp. unknown			C	
147	PESCL	<i>Pennisetum clandestinum</i>	Xf subsp. unknown			C	
148	PESGL	<i>Pennisetum glaucum</i>	Xf subsp. unknown			C	
149	POLPE	<i>Persicaria maculosa</i>	Xf subsp. unknown			C	
150	PHAMI	<i>Phalaris minor</i>	Xf subsp. unknown			C	
151	PHAPA	<i>Phalaris paradoxa</i>	Xf subsp. unknown			C	
152	PHLPR	<i>Phleum pratense</i>	Xf subsp. unknown			C	
153	PHNAR	<i>Photinia arbutifolia</i>	Xf subsp. unknown			C	

154	PTUCR	<i>Pittosporum crassifolium</i>	Xf subsp. unknown			C	
155	PLTSS	<i>Platanus</i> sp.	Xf subsp. unknown			C	
156	POAAN	<i>Poa annua</i>	Xf subsp. unknown			C	
157	PMITR	<i>Poncirus trifoliata</i>	Xf subsp. unknown			C	
158	RESOD	<i>Reseda odorata</i>	Xf subsp. unknown			C	
159	RHERP	<i>Rheum rhaponticum</i>	Xf subsp. unknown			C	
160	RUBVI	<i>Rubus vitifolius</i>	Xf subsp. unknown			C	
161	RUMCR	<i>Rumex crispus</i>	Xf subsp. unknown			C	
162	SAMGL	<i>Sambucus cerulea</i>	Xf subsp. unknown			C	
163	SONAS	<i>Sonchus asper</i>	Xf subsp. unknown			C	
164	SORHA	<i>Sorghum halepense</i>	Xf subsp. unknown			C	
165	SORSU	<i>Sorghum x drummondii</i>	Xf subsp. unknown			C	
166	SYRVU	<i>Syringa vulgaris</i>	Xf subsp. unknown			C	
167	SYZPA	<i>Syzygium paniculatum</i>	Xf subsp. unknown			C	
168	TRFFR	<i>Trifolium fragiferum</i>	Xf subsp. unknown			C	
169	TRFHY	<i>Trifolium hybridum</i>	Xf subsp. unknown			C	
170	TRFIN	<i>Trifolium incarnatum</i>	Xf subsp. unknown			C	
171	TRFPR	<i>Trifolium pratense</i>	Xf subsp. unknown			C	
172	TRFRE	<i>Trifolium repens</i>	Xf subsp. unknown			C	
173	CC260A	<i>Trifolium repens</i> var. <i>latum</i>	Xf subsp. unknown			C	
174	URTLY	<i>Urtica dioica</i> subsp. <i>gracilis</i>	Xf subsp. unknown			C	
175	VICMO	<i>Vicia monantha</i>	Xf subsp. unknown			C	
176	VITAC	<i>Vitis acerifolia</i>	Xf subsp. unknown			C	
177	VITAE	<i>Vitis aestivalis</i>	Xf subsp. unknown			C	
178	VITAZ	<i>Vitis arizonica</i>	Xf subsp. unknown			C	
179	CC271A	<i>Vitis arizonica</i> hybrid	Xf subsp. unknown			C	
180	CC234A	<i>Vitis arizonica/girdiana</i>	Xf subsp. unknown			C	

181	CC235A	<i>Vitis arizonica/girdiana</i> x <i>V. rupestris</i>	Xf subsp. unknown			C	
182	VITBE	<i>Vitis berlandieri</i>	Xf subsp. unknown			C	
183	VITCA	<i>Vitis candidans</i>	Xf subsp. unknown			C	
184	VITCI	<i>Vitis cinerea</i>	Xf subsp. unknown			C	
185	CC239A	<i>Vitis cinerea</i> x <i>V. berlandieri</i>	Xf subsp. unknown			C	
186	VITGI	<i>Vitis girdiana</i>	Xf subsp. unknown			C	
187	VITLA	<i>Vitis labrusca</i>	Xf subsp. unknown			C	
188	VITLI	<i>Vitis lincedumii</i>	Xf subsp. unknown			C	
189	VITMO	<i>Vitis monticola</i>	Xf subsp. unknown			C	
190	VITMU	<i>Vitis munsoniana</i>	Xf subsp. unknown			C	
191	VITPA	<i>Vitis palmata</i>	Xf subsp. unknown			C	
192	VITRI	<i>Vitis riparia</i>	Xf subsp. unknown			C	
193	VITCN	<i>Vitis simpsonii</i>	Xf subsp. unknown			C	
194	VITTI	<i>Vitis tliaefolia</i>	Xf subsp. unknown			C	
195	VITVU	<i>Vitis vulpina</i>	Xf subsp. unknown			C	
196	VITCH	<i>Vitis</i> x <i>championii</i>	Xf subsp. unknown			C	
197	CC252A	<i>Vitis aestivalis</i> var. <i>smalliana</i> x <i>V. simpsonii</i>	Xf subsp. unknown			C	
198	VITBL	<i>Vitis bloodwothiana</i>	Xf subsp. unknown			C	
199	VITNE	<i>Vitis nesbittiana</i>	Xf subsp. unknown			C	
200	CC257A	<i>Vitis shuttleworthii</i>	Xf subsp. unknown			C	
201	VLPMY	<i>Vulpia myuros</i>	Xf subsp. unknown			C	
202	XANOR	<i>Xanthium orientale</i>	Xf subsp. unknown			C	
203	CC138A	( <i>Prunus salicina</i> x <i>P. angustifolia</i> ) x ( <i>P. salicina</i> x <i>P. munsoniana</i> )	Xf subsp. unknown				D
204	PRNAN	<i>Prunus angustifolia</i>	Xf subsp. unknown				D
205	PRNAV	<i>Prunus avium</i>	Xf subsp. unknown				D
206	CC210A	<i>Prunus cerasifera</i> x <i>P. salicina</i>	Xf subsp. unknown				D

207	CC213A	<i>Prunus salicina</i> x ( <i>P. salicina</i> x <i>P. cerasifera</i> )	Xf subsp. unknown				D	
208	CC231A	<i>Vitis arizonica</i> x <i>V. vinifera</i>	Xf subsp. unknown				D	
209	CHEQU	<i>Chenopodium quinoa</i>	Xf subsp. unknown					E
210	CJCWE	<i>Citroncirus webberi</i>	Xf subsp. unknown					E
211	CIDMA	<i>Citrus macrophylla</i>	Xf subsp. unknown					E
212	NIOCL	<i>Nicotiana clevelandii</i>	Xf subsp. unknown					E
213	PRNAR	<i>Prunus armeniaca</i>	Xf subsp. unknown					E
214	PRNHO	<i>Prunus hortulana</i>	Xf subsp. unknown					E
215	PRNME	<i>Prunus mexicana</i>	Xf subsp. unknown					E
216	PRNMM	<i>Prunus mume</i>	Xf subsp. unknown					E

<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	AMABL	<i>Amaranthus blitoides</i>	Xf subsp. <i>fastidiosa</i>	A				
2	FRSAC	<i>Ambrosia acanthicarpa</i>	Xf subsp. <i>fastidiosa</i>	A				
3	AMBEL	<i>Ambrosia artemisiifolia</i>	Xf subsp. <i>fastidiosa</i>	A				
4	CTURO	<i>Catharanthus roseus</i>	Xf subsp. <i>fastidiosa</i>	A				
5	CHEQU	<i>Chenopodium quinoa</i>	Xf subsp. <i>fastidiosa</i>	A				
6	COIMA	<i>Conium maculatum</i>	Xf subsp. <i>fastidiosa</i>	A				
7	CONAR	<i>Convolvulus arvensis</i>	Xf subsp. <i>fastidiosa</i>	A				
8	CYPES	<i>Cyperus esculentus</i>	Xf subsp. <i>fastidiosa</i>	A				
9	DATWR	<i>Datura wrightii</i>	Xf subsp. <i>fastidiosa</i>	A				
10	ECHCG	<i>Echinochloa crus-galli</i>	Xf subsp. <i>fastidiosa</i>	A				
11	ERICA	<i>Erigeron canadensis</i>	Xf subsp. <i>fastidiosa</i>	A				
12	ERBGR	<i>Eriochloa gracilis</i>	Xf subsp. <i>fastidiosa</i>	A				
13	EROMO	<i>Erodium moschatum</i>	Xf subsp. <i>fastidiosa</i>	A				
14	EUCCM	<i>Eucalyptus camaldulensis</i>	Xf subsp. <i>fastidiosa</i>	A				
15	EUCGL	<i>Eucalyptus globulus</i>	Xf subsp. <i>fastidiosa</i>	A				
16	HELAN	<i>Helianthus annuus</i>	Xf subsp. <i>fastidiosa</i>	A				

17	PHBPU	<i>Ipomoea purpurea</i>	Xf subsp. <i>fastidiosa</i>	A			
18	LACSE	<i>Lactuca serriola</i>	Xf subsp. <i>fastidiosa</i>	A			
19	MALPA	<i>Malva parviflora</i>	Xf subsp. <i>fastidiosa</i>	A			
20	MEDSA	<i>Medicago sativa</i>	Xf subsp. <i>fastidiosa</i>	A			
21	NIOGL	<i>Nicotiana glauca</i>	Xf subsp. <i>fastidiosa</i>	A			
22	NIOTA	<i>Nicotiana tabacum</i>	Xf subsp. <i>fastidiosa</i>	A			
23	POROL	<i>Portulaca oleracea</i>	Xf subsp. <i>fastidiosa</i>	A			
24	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>fastidiosa</i>	A			
25	PRNSS	<i>Prunus</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
26	RUBUR	<i>Rubus ursinus</i>	Xf subsp. <i>fastidiosa</i>	A			
27	RUMCR	<i>Rumex crispus</i>	Xf subsp. <i>fastidiosa</i>	A			
28	SMMCH	<i>Simmondsia chinensis</i>	Xf subsp. <i>fastidiosa</i>	A			
29	LYPES	<i>Solanum lycopersicum</i>	Xf subsp. <i>fastidiosa</i>	A			
30	SOLME	<i>Solanum melongena</i>	Xf subsp. <i>fastidiosa</i>	A			
31	SONOL	<i>Sonchus oleraceus</i>	Xf subsp. <i>fastidiosa</i>	A			
32	SORHA	<i>Sorghum halepense</i>	Xf subsp. <i>fastidiosa</i>	A			
33	VACCO	<i>Vaccinium corymbosum</i>	Xf subsp. <i>fastidiosa</i>	A			
34	VACSS	<i>Vaccinium</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
35	VICFX	<i>Vicia faba</i>	Xf subsp. <i>fastidiosa</i>	A			
36	VICSA	<i>Vicia sativa</i>	Xf subsp. <i>fastidiosa</i>	A			
37	VITSS	<i>Vitis</i> sp.	Xf subsp. <i>fastidiosa</i>	A			
38	VITVI	<i>Vitis vinifera</i>	Xf subsp. <i>fastidiosa</i>	A			
39	CC247A	<i>Vitis vinifera</i> hybrid	Xf subsp. <i>fastidiosa</i>	A			
40	XANST	<i>Xanthium strumarium</i>	Xf subsp. <i>fastidiosa</i>	A			
41	ARBTH	<i>Arabidopsis thaliana</i>	Xf subsp. <i>fastidiosa</i>		B		
42	CHYHO	<i>Dendranthema x grandiflorum</i>	Xf subsp. <i>fastidiosa</i>			C	
43	LURNO	<i>Laurus nobilis</i>	Xf subsp. <i>fastidiosa</i>			C	
44	MYVCO	<i>Myrtus communis</i>	Xf subsp. <i>fastidiosa</i>			C	

45	OLVEU	<i>Olea europaea</i>	Xf subsp. <i>fastidiosa</i>			C	
46	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. <i>fastidiosa</i>			C	
47	PRNAR	<i>Prunus armeniaca</i>	Xf subsp. <i>fastidiosa</i>			C	
48	PRNDO	<i>Prunus domestica</i>	Xf subsp. <i>fastidiosa</i>			C	
49	CC211A	<i>Prunus dulcis</i> x <i>P. webbii</i>	Xf subsp. <i>fastidiosa</i>			C	
50	PRNPS	<i>Prunus persica</i>	Xf subsp. <i>fastidiosa</i>			C	
51	CC212A	<i>Prunus persica</i> x <i>P. webbii</i>	Xf subsp. <i>fastidiosa</i>			C	
52	PRNWE	<i>Prunus webbii</i>	Xf subsp. <i>fastidiosa</i>			C	
53	PYUCO	<i>Pyrus communis</i>	Xf subsp. <i>fastidiosa</i>			C	
54	QUEPE	<i>Quercus petraea</i>	Xf subsp. <i>fastidiosa</i>			C	
55	RUBDI	<i>Rubus rigidus</i>	Xf subsp. <i>fastidiosa</i>			C	
56	SAXAL	<i>Salix alba</i>	Xf subsp. <i>fastidiosa</i>			C	
57	SAMCN	<i>Sambucus canadensis</i>	Xf subsp. <i>fastidiosa</i>			C	
58	VINMA	<i>Vinca major</i>	Xf subsp. <i>fastidiosa</i>			C	
59	VITAC	<i>Vitis acerifolia</i>	Xf subsp. <i>fastidiosa</i>			C	
60	VITAE	<i>Vitis aestivalis</i>	Xf subsp. <i>fastidiosa</i>			C	
61	VITAZ	<i>Vitis arizonica</i>	Xf subsp. <i>fastidiosa</i>			C	
62	CC232A	<i>Vitis arizonica/candicans</i>	Xf subsp. <i>fastidiosa</i>			C	
63	VITBE	<i>Vitis berlandieri</i>	Xf subsp. <i>fastidiosa</i>			C	
64	VITCL	<i>Vitis californica</i>	Xf subsp. <i>fastidiosa</i>			C	
65	VITCA	<i>Vitis candicans</i>	Xf subsp. <i>fastidiosa</i>			C	
66	CC237A	<i>Vitis champinii</i> x ( <i>V. solonis</i> x <i>V. othello</i> )	Xf subsp. <i>fastidiosa</i>			C	
67	VITCI	<i>Vitis cinerea</i>	Xf subsp. <i>fastidiosa</i>			C	
68	VITGI	<i>Vitis girdiana</i>	Xf subsp. <i>fastidiosa</i>			C	
69	VITLA	<i>Vitis labrusca</i>	Xf subsp. <i>fastidiosa</i>			C	
70	VITMO	<i>Vitis monticola</i>	Xf subsp. <i>fastidiosa</i>			C	
71	VITRI	<i>Vitis riparia</i>	Xf subsp. <i>fastidiosa</i>			C	
72	VITRU	<i>Vitis rupestris</i>	Xf subsp. <i>fastidiosa</i>			C	



73	VITTI	<i>Vitis tiliaefolia</i>	Xf subsp. <i>fastidiosa</i>				C	
74	VITTL	<i>Vitis treleasei</i>	Xf subsp. <i>fastidiosa</i>				C	
75	VITVU	<i>Vitis vulpina</i>	Xf subsp. <i>fastidiosa</i>				C	
76	CC277A	<i>Vitis</i> × <i>doaniana</i>	Xf subsp. <i>fastidiosa</i>				C	
77	VITNE	<i>Vitis nesbittiana</i>	Xf subsp. <i>fastidiosa</i>				C	
78	CC257A	<i>Vitis shuttleworthii</i>	Xf subsp. <i>fastidiosa</i>				C	
79	LIQST	<i>Liquidambar styraciflua</i>	Xf subsp. <i>fastidiosa</i>					E
<b>N</b>	<b>Plant EPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	ACRRB	<i>Acer rubrum</i>	Xf subsp. <i>multiplex</i>	A				
2	AMBEL	<i>Ambrosia artemisiifolia</i>	Xf subsp. <i>multiplex</i>	A				
3	CYAIL	<i>Carya illinoensis</i>	Xf subsp. <i>multiplex</i>	A				
4	LIQST	<i>Liquidambar styraciflua</i>	Xf subsp. <i>multiplex</i>	A				
5	MEDSA	<i>Medicago sativa</i>	Xf subsp. <i>multiplex</i>	A				
6	NIOTA	<i>Nicotiana tabacum</i>	Xf subsp. <i>multiplex</i>	A				
7	OLVEU	<i>Olea europaea</i>	Xf subsp. <i>multiplex</i>	A				
8	PIAVE	<i>Pistacia vera</i>	Xf subsp. <i>multiplex</i>	A				
9	PLTOC	<i>Platanus occidentalis</i>	Xf subsp. <i>multiplex</i>	A				
10	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. <i>multiplex</i>	A				
11	PRNCF	<i>Prunus cerasifera</i>	Xf subsp. <i>multiplex</i>	A				
12	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>multiplex</i>	A				
13	PRNPS	<i>Prunus persica</i>	Xf subsp. <i>multiplex</i>	A				
14	PRNSS	<i>Prunus</i> sp.	Xf subsp. <i>multiplex</i>	A				
15	QUEFC	<i>Quercus falcata</i>	Xf subsp. <i>multiplex</i>	A				
16	RUBFR	<i>Rubus fruticosus</i>	Xf subsp. <i>multiplex</i>	A				
17	RUBUR	<i>Rubus ursinus</i>	Xf subsp. <i>multiplex</i>	A				
18	VACCO	<i>Vaccinium corymbosum</i>	Xf subsp. <i>multiplex</i>	A				
19	VITVI	<i>Vitis vinifera</i>	Xf subsp. <i>multiplex</i>	A				

20	BIDPI	<i>Bidens pilosa</i>	Xf subsp. <i>multiplex</i>				C	
21	CTURO	<i>Catharanthus roseus</i>	Xf subsp. <i>multiplex</i>				C	
22	LEPRU	<i>Lepidium ruderale</i>	Xf subsp. <i>multiplex</i>				C	
23	MABSD	<i>Malus domestica</i>	Xf subsp. <i>multiplex</i>				C	
24	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>multiplex</i>				C	
25	PRNAR	<i>Prunus armeniaca</i>	Xf subsp. <i>multiplex</i>				C	
26	PRNAV	<i>Prunus avium</i>	Xf subsp. <i>multiplex</i>				C	
27	PRNDO	<i>Prunus domestica</i>	Xf subsp. <i>multiplex</i>				C	
28	CC212A	<i>Prunus persica</i> x <i>P. webbii</i>	Xf subsp. <i>multiplex</i>				C	
29	PRNSC	<i>Prunus salicina</i>	Xf subsp. <i>multiplex</i>				C	
30	PRNWE	<i>Prunus webbii</i>	Xf subsp. <i>multiplex</i>				C	
31	PYUCO	<i>Pyrus communis</i>	Xf subsp. <i>multiplex</i>				C	
32	QUEPE	<i>Quercus petraea</i>	Xf subsp. <i>multiplex</i>				C	
33	RAPSR	<i>Raphanus sativus</i>	Xf subsp. <i>multiplex</i>				C	
34	SAXAL	<i>Salix alba</i>	Xf subsp. <i>multiplex</i>				C	
35	SOLAM	<i>Solanum americanum</i>	Xf subsp. <i>multiplex</i>				C	
36	VACSS	<i>Vaccinium</i> sp.	Xf subsp. <i>multiplex</i>					E

<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	BIDPI	<i>Bidens pilosa</i>	Xf subsp. <i>pauca</i>	A				
2	BRADC	<i>Brachiaria decumbens</i>	Xf subsp. <i>pauca</i>	A				
3	BRAPL	<i>Brachiaria plantaginea</i>	Xf subsp. <i>pauca</i>	A				
4	CTURO	<i>Catharanthus roseus</i>	Xf subsp. <i>pauca</i>	A				
5	CIDRE	<i>Citrus reticulata</i>	Xf subsp. <i>pauca</i>	A				
6	CIDSI	<i>Citrus sinensis</i>	Xf subsp. <i>pauca</i>	A				
7	CIDSS	<i>Citrus</i> sp.	Xf subsp. <i>pauca</i>	A				
8	CIDNO	<i>Citrus x nobilis</i>	Xf subsp. <i>pauca</i>	A				
9	COFAR	<i>Coffea arabica</i>	Xf subsp. <i>pauca</i>	A				

10	COFSS	<i>Coffea</i> sp.	Xf subsp. <i>pauca</i>	A				
11	ECHCG	<i>Echinochloa crus-galli</i>	Xf subsp. <i>pauca</i>	A				
12	IASAZ	<i>Jasminum azoricum</i>	Xf subsp. <i>pauca</i>	A				
13	MEDSA	<i>Medicago sativa</i>	Xf subsp. <i>pauca</i>	A				
14	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>pauca</i>	A				
15	NIOCL	<i>Nicotiana clevelandii</i>	Xf subsp. <i>pauca</i>	A				
16	NIOTA	<i>Nicotiana tabacum</i>	Xf subsp. <i>pauca</i>	A				
17	OCIBA	<i>Ocimum basilicum</i>	Xf subsp. <i>pauca</i>	A				
18	OLVEU	<i>Olea europaea</i>	Xf subsp. <i>pauca</i>	A				
19	POGMY	<i>Polygala myrtifolia</i>	Xf subsp. <i>pauca</i>	A				
20	SOLAM	<i>Solanum americanum</i>	Xf subsp. <i>pauca</i>	A				
21	ARBTH	<i>Arabidopsis thaliana</i>	Xf subsp. <i>pauca</i>		B			
22	CC135A	Periwinkle (common name)	Xf subsp. <i>pauca</i>			C		
23	CHEAL	<i>Chenopodium album</i>	Xf subsp. <i>pauca</i>			C		
24	DIGHO	<i>Digitaria horizontalis</i>	Xf subsp. <i>pauca</i>			C		
25	MABSD	<i>Malus domestica</i>	Xf subsp. <i>pauca</i>			C		
26	PRNAV	<i>Prunus avium</i>	Xf subsp. <i>pauca</i>			C		
27	PRNDO	<i>Prunus domestica</i>	Xf subsp. <i>pauca</i>			C		
28	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>pauca</i>			C		
29	PYUCO	<i>Pyrus communis</i>	Xf subsp. <i>pauca</i>			C		
30	QUEPE	<i>Quercus petraea</i>	Xf subsp. <i>pauca</i>			C		
31	SAXAL	<i>Salix alba</i>	Xf subsp. <i>pauca</i>			C		
32	RMSOF	<i>Salvia rosmarinus</i>	Xf subsp. <i>pauca</i>			C		
33	VITVI	<i>Vitis vinifera</i>	Xf subsp. <i>pauca</i>			C		
N	Plant EPO Code	Plant Species	Pest	Category A	Category B	Category C	Category D	Category E
1	MORAL	<i>Morus alba</i>	Xf subsp. <i>morus</i>	A				
2	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>morus</i>	A				

<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	CTURO	<i>Catharanthus roseus</i>	Xf subsp. <i>sandyi</i>	A				
2	MEDSA	<i>Medicago sativa</i>	Xf subsp. <i>sandyi</i>	A				
3	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>sandyi</i>	A				
4	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>sandyi</i>	A				
5	VINMA	<i>Vinca major</i>	Xf subsp. <i>sandyi</i>	A				
6	COFAR	<i>Coffea arabica</i>	Xf subsp. <i>sandyi</i>			C		
7	MABSD	<i>Malus domestica</i>	Xf subsp. <i>sandyi</i>			C		
8	NIOTA	<i>Nicotiana tabacum</i>	Xf subsp. <i>sandyi</i>			C		
9	OLVEU	<i>Olea europaea</i>	Xf subsp. <i>sandyi</i>			C		
10	PYUCO	<i>Pyrus communis</i>	Xf subsp. <i>sandyi</i>			C		
11	VITVI	<i>Vitis vinifera</i>	Xf subsp. <i>sandyi</i>			C		
<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	NIOBE	<i>Nicotiana benthamiana</i>	Xf subsp. <i>tashke</i>			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 and 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 and 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 EPPO Code	Plant Species	Pest	Category A	Category B	Category C	Category D	Category E
1	AMCAR	<i>Ampelopsis arborea</i>	Xf subsp. unknown	A				
2	CTURO	<i>Catharanthus roseus</i>	Xf subsp. unknown	A				
3	CTUSS	<i>Catharanthus</i> sp.	Xf subsp. unknown	A				
4	CIDJA	<i>Citrus jambhiri</i>	Xf subsp. unknown	A				
5	CIDSI	<i>Citrus sinensis</i>	Xf subsp. unknown	A				
6	COFAR	<i>Coffea arabica</i>	Xf subsp. unknown	A				
7	HIBSH	<i>Hibiscus schizopetalus</i>	Xf subsp. unknown	A				
8	MORNI	<i>Morus nigra</i>	Xf subsp. unknown	A				
9	NEROL	<i>Nerium oleander</i>	Xf subsp. unknown	A				
10	PRNPS	<i>Prunus persica</i>	Xf subsp. unknown	A				
11	PRNSS	<i>Prunus</i> sp.	Xf subsp. unknown	A				
12	SAMCN	<i>Sambucus canadensis</i>	Xf subsp. unknown	A				
13	VITMU	<i>Vitis munsoniana</i>	Xf subsp. unknown	A				
14	VITRF	<i>Vitis rotundifolia</i>	Xf subsp. unknown	A				

15	VITSS	<i>Vitis</i> sp.	Xf subsp. unknown	A				
16	VITVI	<i>Vitis vinifera</i>	Xf subsp. unknown	A				
17	AMBSS	<i>Ambrosia</i> sp.	Xf subsp. unknown		B			
18	CC135A	Periwinkle (common name)	Xf subsp. unknown		B			
19	ACRSS	<i>Acer</i> sp.	Xf subsp. unknown			C		
20	CYAIL	<i>Carya illinoensis</i>	Xf subsp. unknown			C		
21	CIDSS	<i>Citrus</i> sp.	Xf subsp. unknown			C		
22	PRNDU	<i>Prunus dulcis</i>	Xf subsp. unknown			C		
23	PRNSC	<i>Prunus salicina</i>	Xf subsp. unknown			C		
24	PYUSS	<i>Pyrus</i> sp.	Xf subsp. unknown			C		
25	TLNMO	<i>Teline monspessulana</i>	Xf subsp. unknown			C		
26	VACDA	<i>Vaccinium darrowii</i>	Xf subsp. unknown			C		
27	VACSS	<i>Vaccinium</i> sp.	Xf subsp. unknown			C		
28	PRNAN	<i>Prunus angustifolia</i>	Xf subsp. unknown				D	
29	VITLA	<i>Vitis labrusca</i>	Xf subsp. unknown				D	
30	MORSS	<i>Morus</i> sp.	Xf subsp. unknown					E
31	NIOTA	<i>Nicotiana tabacum</i>	Xf subsp. unknown					E

<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	AMBEL	<i>Ambrosia artemisiifolia</i>	Xf subsp. <i>fastidiosa</i>	A				
2	LUPSS	<i>Lupinus</i> sp.	Xf subsp. <i>fastidiosa</i>	A				
3	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>fastidiosa</i>	A				
4	SAMSS	<i>Sambucus</i> sp.	Xf subsp. <i>fastidiosa</i>	A				
5	VITRF	<i>Vitis rotundifolia</i>	Xf subsp. <i>fastidiosa</i>	A				
6	VITSS	<i>Vitis</i> sp.	Xf subsp. <i>fastidiosa</i>	A				
7	VITVI	<i>Vitis vinifera</i>	Xf subsp. <i>fastidiosa</i>	A				
<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
1	AMBTR	<i>Ambrosia trifida</i>	Xf subsp. <i>multiplex</i>	A				

2	MORSS	<i>Morus</i> sp.	Xf subsp. <i>multiplex</i>	A				
3	PLTSS	<i>Platanus</i> sp.	Xf subsp. <i>multiplex</i>	A				
4	PRNCF	<i>Prunus cerasifera</i>	Xf subsp. <i>multiplex</i>	A				
5	PRNDO	<i>Prunus domestica</i>	Xf subsp. <i>multiplex</i>	A				
6	PRNDU	<i>Prunus dulcis</i>	Xf subsp. <i>multiplex</i>	A				
7	PRNSC	<i>Prunus salicina</i>	Xf subsp. <i>multiplex</i>	A				
8	QUESS	<i>Quercus</i> sp.	Xf subsp. <i>multiplex</i>	A				
9	RUBFR	<i>Rubus fruticosus</i>	Xf subsp. <i>multiplex</i>	A				
10	RUBSS	<i>Rubus</i> sp.	Xf subsp. <i>multiplex</i>	A				
11	VACCO	<i>Vaccinium corymbosum</i>	Xf subsp. <i>multiplex</i>	A				
12	CC225A	<i>Vaccinium corymbosum</i> x <i>V. angustifolium</i> hybrid	Xf subsp. <i>multiplex</i>	A				
13	VINSS	<i>Vinca</i> sp.	Xf subsp. <i>multiplex</i>	A				
14	LIQST	<i>Liquidambar styraciflua</i>	Xf subsp. <i>multiplex</i>			C		
15	QUELA	<i>Quercus laevis</i>	Xf subsp. <i>multiplex</i>			C		
16	QUERU	<i>Quercus rubra</i>	Xf subsp. <i>multiplex</i>			C		

<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
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1	CIDSI	<i>Citrus sinensis</i>	Xf subsp. <i>pauca</i>	A				
2	CIDSS	<i>Citrus</i> sp.	Xf subsp. <i>pauca</i>	A				
3	COFSS	<i>Coffea</i> sp.	Xf subsp. <i>pauca</i>	A				
4	HIBFR	<i>Hibiscus fragilis</i>	Xf subsp. <i>pauca</i>	A				
5	HIBSS	<i>Hibiscus</i> sp.	Xf subsp. <i>pauca</i>	A				
6	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>pauca</i>	A				
7	PRNDO	<i>Prunus domestica</i>	Xf subsp. <i>pauca</i>	A				
8	PRNSS	<i>Prunus</i> sp.	Xf subsp. <i>pauca</i>	A				

<b>N</b>	<b>Plant EPPO Code</b>	<b>Plant Species</b>	<b>Pest</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Category E</b>
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1	COFAR	<i>Coffea arabica</i>	Xf subsp. <i>sandyi</i>	A				
2	NEROL	<i>Nerium oleander</i>	Xf subsp. <i>sandyi</i>			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 (doi: [10.5281/zenodo.1339343](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).

<i>X. fastidiosa</i> 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
<b><i>fastidiosa</i></b>			22					20	5	79	134		260	179	9	448
<b>ST1</b>							18			79	104		201	173	2	376
<i>Acer</i> sp.											1		1			1
<i>Amaranthus blitoides</i>														1		1
<i>Ambrosia acanthicarpa</i>														2		2
<i>Calicotome spinosa</i>									4				4			4
<i>Catharanthus roseus</i>														2		2
<i>Cercis occidentalis</i>										1			1			1
<i>Chenopodium quinoa</i>														2		2
<i>Cistus monspeliensis</i>										2			2			2
<i>Citrus sinensis</i>											1		1			1
<i>Conium maculatum</i>														2		2
<i>Convolvulus arvensis</i>														1		1
<i>Cyperus esculentus</i>														1		1
<i>Datura wrightii</i>														1		1
<i>Echinochloa crus-galli</i>														1		1
<i>Erigeron canadensis</i>														1		1
<i>Eriochloa gracilis</i>														1		1
<i>Erodium moschatum</i>														2		2
<i>Eucalyptus camaldulensis</i>														2		2
<i>Eucalyptus globulus</i>														1		1
<i>Ficus carica</i>										1			1			1
<i>Genista lucida</i>										3			3			3
<i>Helianthus annuus</i>														3		3



<i>X. fastidiosa</i> 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
<i>Ipomoea purpurea</i>														2		2
<i>Juglans regia</i>										4				4		4
<i>Lactuca serriola</i>														3		3
<i>Malva parviflora</i>														2		2
<i>Medicago sativa</i>											3			3	11	14
<i>Metrosideros</i> sp.											1			1		1
<i>Nicotiana glauca</i>														2		2
<i>Nicotiana tabacum</i>														1		1
<i>Olea europaea</i>														1		1
<i>Pluchea odorata</i>											1			1		1
<i>Polygala myrtifolia</i>										3				3	1	4
<i>Portulaca oleracea</i>														1		1
<i>Prunus avium</i>										11	2			13		13
<i>Prunus domestica</i>														1		1
<i>Prunus dulcis</i>										19	23			42	39	82
<i>Rhamnus alaternus</i>										6				6		6
<i>Rubus ursinus</i>														2		2
<i>Rumex crispus</i>														1		1
<i>Ruta chalepensis</i>										3				3		3
<i>Sambucus canadensis</i>											2			2		2
<i>Sambucus</i> sp.											1			1		1
<i>Simmondsia chinensis</i>														2		2
<i>Solanum lycopersicum</i>														1		1
<i>Solanum melongena</i>														1		1
<i>Sonchus oleraceus</i>														1		1
<i>Sorghum halepense</i>														1		1
<i>Spartium junceum</i>											1			1		1
<i>Teucrium capitatum</i>										3				3		3
<i>Vaccinium corymbosum</i>											2			2	2	4
<i>Vaccinium</i> sp.														5		5

<i>X. fastidiosa</i> 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	
<i>Vicia faba</i>															1		1
<i>Vicia sativa</i>															1		1
<i>Vitis aestivalis</i>											2			2			2
<i>Vitis girdiana</i>											1			1			1
<i>Vitis</i> sp.								2			31			33		1	34
<i>Vitis vinifera</i>								16		20	31			67	56		123
<i>Vitis vinifera</i> hybrid															9		9
<i>Xanthium strumarium</i>															3		3
<b>ST2</b>								<b>5</b>			<b>24</b>			<b>29</b>	<b>5</b>	<b>7</b>	<b>41</b>
<i>Ambrosia artemisiifolia</i>											2			2		1	3
<i>Citrus limon</i>									1					1			1
<i>Citrus paradisi</i>									1					1			1
<i>Coffea</i> sp.											1			1			1
<i>Elaeagnus angustifolia</i>									1					1			1
<i>Myrtus communis</i>									1					1			1
<i>Polygala myrtifolia</i>															1		1
<i>Prunus domestica</i>															1		1
<i>Quercus petraea</i>															1		1
<i>Salix alba</i>															1		1
<i>Ulex europaeus</i>									1					1			1
<i>Vitis</i> hybrids											2			2			2
<i>Vitis rotundifolia</i>											6			6		1	7
<i>Vitis</i> sp.											5			5			5
<i>Vitis vinifera</i>											8			8	1	5	14
<b>ST3</b>											<b>1</b>			<b>1</b>			<b>1</b>
<i>Lupinus aridorum</i>											1			1			1
<b>ST4</b>											<b>5</b>			<b>5</b>	<b>1</b>		<b>6</b>
<i>Medicago sativa</i>															1		1
<i>Vitis</i> sp.											4			4			4
<b>Vitis vinifera</b>											1			1			1

<i>X. fastidiosa</i> 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
<b>ST17</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST18</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Vitis</i> sp.			1										1			1
<b>ST19</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST20</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST21</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST33</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST47</b>			<b>2</b>										<b>2</b>			<b>2</b>
<i>Coffea arabica</i>			1										1			1
<i>Vitis</i> sp.			1										1			1
<b>ST52</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST54</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST55</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST56</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST57</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST59</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Vitis vinifera</i>			1										1			1
<b>ST60</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Vitis vinifera</i>			1										1			1
<b>ST61</b>			<b>3</b>										<b>3</b>			<b>3</b>

<i>X. fastidiosa</i> 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
<i>Citrus sinensis</i>			1										1			1
<i>Coffea arabica</i>			2										2			2
<b>ST72</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST75</b>													<b>2</b>			<b>2</b>
<i>Coffea canephora</i>													2			2
<b>ST76</b>			<b>2</b>										<b>2</b>			<b>2</b>
<i>Coffea arabica</i>			2										2			2
<b>ST77</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>fastidiosa/sandyi</b>			<b>3</b>										<b>1</b>			<b>4</b>
<b>ST72</b>			<b>2</b>										<b>2</b>			<b>2</b>
<i>Coffea arabica</i>			2										2			2
<b>ST75</b>													<b>1</b>			<b>1</b>
<i>Coffea canephora</i>													1			1
<b>ST76</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>morus</b>													<b>25</b>			<b>25</b>
<b>ST29</b>													<b>10</b>			<b>10</b>
<i>Morus alba</i>													4			4
<i>Morus rubra</i>													4			4
<i>Morus</i> sp.													2			2
<b>ST30</b>													<b>5</b>			<b>5</b>
<i>Morus alba</i>													4			4
<i>Nandina domestica</i>													1			1
<b>ST31</b>													<b>6</b>			<b>6</b>
<i>Morus</i> sp.													6			6
<b>ST62</b>													<b>4</b>			<b>4</b>
<i>Morus alba</i>													4			4
<b>multiplex</b>		<b>5</b>			<b>111</b>		<b>91</b>		<b>101</b>	<b>235</b>	<b>217</b>		<b>760</b>	<b>125</b>	<b>16</b>	<b>901</b>

<i>X. fastidiosa</i> 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	
<b>ST6</b>					<b>16</b>					<b>128</b>	<b>16</b>		<b>160</b>	<b>53</b>	<b>1</b>	<b>214</b>
<i>Acacia saligna</i>										4			4			4
<i>Asparagus acutifolius</i>										1			1			1
<i>Calicotome spinosa</i>										5			5			5
<i>Catharanthus roseus</i>														1		1
<i>Cistus albidus</i>										4			4			4
<i>Cistus monspeliensis</i>										2			2			2
<i>Cistus salviifolius</i>										2			2			2
<i>Genista scorpius</i>										1			1			1
<i>Helichrysum italicum</i>										10			10			10
<i>Helichrysum stoechas</i>										4			4			4
<i>Laurus nobilis</i>					1					3			4			4
<i>Lavandula angustifolia</i>										2			2			2
<i>Lavandula dentata</i>										3			3			3
<i>Lavandula latifolia</i>										2			2			2
<i>Lavandula x intermedia</i>					1								1			1
<i>Medicago sativa</i>														4		4
<i>Nicotiana tabacum</i>														1		1
<i>Olea europaea</i>										2	3		5	31		36
<i>Phagnalon saxatile</i>										4			4			4
<i>Polygala myrtifolia</i>					2					6			8	1		9
<i>Prunus armeniaca</i>										5			5			5
<i>Prunus cerasifera</i>														1		1
<i>Prunus domestica</i>										5			5			5
<i>Prunus dulcis</i>										48	13		61	9	1	71
<i>Quercus petraea</i>														1		1
<i>Rhamnus alaternus</i>										6			6			6
<i>Rubus ursinus</i>														1		1
<i>Salix alba</i>														1		1
<i>Salvia rosmarinus</i>										6			6			6

<i>X. fastidiosa</i> 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
<i>Santolina chamaecyparissus</i>										1			1			1
<i>Spartium junceum</i>					11								11			11
<i>Spartium</i> sp.					1								1			1
<i>Ulex parviflorus</i>										2			2			2
<i>Vitis vinifera</i>														2		2
<b>ST6 and ST7</b>					<b>1</b>								<b>1</b>			<b>1</b>
<i>Cistus monspeliensis</i>					1								1			1
<b>ST6 and/or ST7</b>					<b>76</b>								<b>76</b>			<b>76</b>
<i>Acacia dealbata</i>					1								1			1
<i>Acer pseudoplatanus</i>					2								2			2
<i>Anthyllis hermanniae</i>					1								1			1
<i>Artemisia arborescens</i>					2								2			2
<i>Asparagus acutifolius</i>					2								2			2
<i>Calicotome villosa</i>					1								1			1
<i>Cercis siliquastrum</i>					1								1			1
<i>Cistus creticus</i>					1								1			1
<i>Cistus monspeliensis</i>					2								2			2
<i>Cistus salviifolius</i>					2								2			2
<i>Coronilla valentina</i>					2								2			2
<i>Cytisus scoparius</i>					1								1			1
<i>Cytisus</i> sp.					2								2			2
<i>Cytisus villosus</i>					1								1			1
<i>Euryops chrysanthemoides</i>					1								1			1
<i>Genista corsica</i>					1								1			1
<i>Genista ephedroides</i>					2								2			2
<i>Genista x spachiana</i>					2								2			2
<i>Hebe</i> sp.					2								2			2
<i>Helichrysum italicum</i>					3								3			3
<i>Lavandula angustifolia</i>					2								2			2
<i>Lavandula dentata</i>					2								2			2

<i>X. fastidiosa</i> 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			
<i>Lavandula</i> sp.					3								3			3			
<i>Lavandula stoechas</i>					2								2			2			
<i>Lavandula x heterophylla</i>					2								2			2			
<i>Lavandula x intermedia</i>					3								3			3			
<i>Medicago sativa</i>					1								1			1			
<i>Metrosideros excelsa</i>					2								2			2			
<i>Myrtus communis</i>					2								2			2			
<i>Pelargonium graveolens</i>					2								2			2			
<i>Pelargonium</i> sp.					2								2			2			
<i>Phagnalon saxatile</i>					1								1			1			
<i>Polygala myrtifolia</i>					7								7			7			
<i>Polygala</i> sp.					1								1			1			
<i>Prunus cerasifera</i>					2								2			2			
<i>Prunus dulcis</i>					1								1			1			
<i>Quercus suber</i>					2								2			2			
<i>Rosa canina</i>					1								1			1			
<i>Salvia rosmarinus</i>					2								2			2			
<i>Spartium junceum</i>					3								3			3			
<i>Westringia fruticosa</i>					1								1			1			
<b>ST7</b>					<b>8</b>								<b>101</b>	<b>8</b>	<b>25</b>	<b>142</b>	<b>23</b>		<b>165</b>
<i>Acacia longifolia</i>													2			2			2
<i>Acacia melanoxylon</i>													1			1			1
<i>Adenocarpus lainzii</i>													2			2			2
<i>Artemisia arborescens</i>													2			2			2
<i>Artemisia</i> sp.													2			2			2
<i>Asparagus acutifolius</i>													1			1			1
<i>Athyrium filix-femina</i>													1			1			1
<i>Berberis thunbergii</i>													1			1			1
<i>Calluna vulgaris</i>													1			1			1
<i>Catharanthus roseus</i>																	1		1

<i>X. fastidiosa</i> 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
<i>Cistus inflatus</i>									2				2			2
<i>Cistus salviifolius</i>									1				1			1
<i>Coprosma repens</i>									3				3			3
<i>Cytisus scoparius</i>									3				3			3
<i>Dimorphotheca ecklonis</i>									1				1			1
<i>Dodonaea viscosa</i>									2				2			2
<i>Echium plantagineum</i>									1				1			1
<i>Elaeagnus x submacrophylla</i>									1				1			1
<i>Erica cinerea</i>									1				1			1
<i>Erigeron canadensis</i>									1				1			1
<i>Erodium moschatum</i>									1				1			1
<i>Euryops chrysanthemoides</i>									1				1			1
<i>Frangula alnus</i>									1				1			1
<i>Gazania rigens</i>									2				2			2
<i>Genista corsica</i>					1								1			1
<i>Genista tridentata</i>									1				1			1
<i>Hebe</i> sp.									3				3			3
<i>Hibiscus syriacus</i>									1				1			1
<i>Hypericum androsaemum</i>									1				1			1
<i>Hypericum perforatum</i>									1				1			1
<i>Ilex aquifolium</i>									2				2			2
<i>Laurus nobilis</i>									1				1			1
<i>Lavandula angustifolia</i>									2				2			2
<i>Lavandula dentata</i>									6				6			6
<i>Lavandula</i> sp.									1				1			1
<i>Lavandula stoechas</i>									1				1			1
<i>Lavatera cretica</i>									1				1			1
<i>Magnolia grandiflora</i>									3				3			3
<i>Magnolia x soulangeana</i>									1				1			1
<i>Medicago sativa</i>									2				2	2		4



<i>X. fastidiosa</i> 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
<i>Metrosideros excelsa</i>									2				2			2
<i>Metrosideros</i> sp.									1				1			1
<i>Myrtus communis</i>									2				2			2
<i>Nerium oleander</i>									1		1		2	1		3
<i>Nicotiana tabacum</i>														1		1
<i>Olea europaea</i>									1		7		8	4		12
<i>Olea</i> sp.											1		1			1
<i>Pelargonium graveolens</i>									1				1			1
<i>Plantago lanceolata</i>									1				1			1
<i>Polygala myrtifolia</i>					6						3		9	2		11
<i>Prunus avium</i>														1		1
<i>Prunus cerasifera</i>														1		1
<i>Prunus domestica</i>														2		2
<i>Prunus dulcis</i>										5	10		15	4		19
<i>Prunus laurocerasus</i>									1				1			1
<i>Prunus persica</i>									1				1			1
<i>Prunus</i> sp.											1		1			1
<i>Pteridium aquilinum</i>									1				1			1
<i>Quercus petraea</i>														1		1
<i>Quercus robur</i>									2				2			2
<i>Quercus rubra</i>									1		2		3			3
<i>Quercus suber</i>									3				3			3
<i>Rosa</i> sp.									1				1			1
<i>Rubus fruticosus</i>														1		1
<i>Rubus ulmifolius</i>									2				2			2
<i>Salix alba</i>														1		1
<i>Salvia mellifera</i>											3		3			3
<i>Salvia officinalis</i>									1				1			1
<i>Salvia rosmarinus</i>									2				2			2
<i>Sambucus nigra</i>									1				1			1

<i>X. fastidiosa</i> 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
<i>Santolina chamaecyparissus</i>									4				4			4
<i>Santolina</i> sp.									1				1			1
<i>Spartium junceum</i>					1								1			1
<i>Strelitzia reginae</i>									1				1			1
<i>Ulex europaeus</i>									2				2			2
<i>Ulex minor</i>									2				2			2
<i>Ulex</i> sp.									2				2			2
<i>Vinca major</i>									2				2			2
<i>Vinca</i> sp.									1				1			1
<i>Vitis vinifera</i>														1		1
<b>ST7 and ST88</b>					<b>1</b>								<b>1</b>			<b>1</b>
<i>Polygala myrtifolia</i>					1								1			1
<b>ST8</b>										<b>13</b>			<b>13</b>			<b>13</b>
<i>Alnus rhombifolia</i>										1			1			1
<i>Carya illinoensis</i>										2			2			2
<i>Platanus occidentalis</i>										7			7			7
<i>Platanus</i> sp.										1			1			1
<i>Quercus palustris</i>										1			1			1
<i>Ulmus americana</i>										1			1			1
<b>ST9</b>										<b>28</b>			<b>28</b>	<b>4</b>		<b>32</b>
<i>Polygala myrtifolia</i>														1		1
<i>Quercus coccinea</i>										2			2			2
<i>Quercus falcata</i>										1			1	1		2
<i>Quercus laevis</i>										2			2			2
<i>Quercus nigra</i>										1			1			1
<i>Quercus palustris</i>										11			11			11
<i>Quercus petraea</i>														1		1
<i>Quercus phellos</i>										1			1			1
<i>Quercus robur</i>										1			1			1
<i>Quercus rubra</i>										5			5			5

<i>X. fastidiosa</i> 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		
<i>Quercus shumardii</i>													1		1			1
<i>Quercus</i> sp.													3		3			3
<i>Rubus fruticosus</i>																1		1
<b>ST10</b>													<b>9</b>		<b>9</b>	<b>4</b>		<b>13</b>
<i>Polygala myrtifolia</i>																1		1
<i>Prunus domestica</i>													3		3	1		4
<i>Prunus persica</i>													3		3			3
<i>Prunus</i> sp.													3		3			3
<i>Quercus petraea</i>																1		1
<i>Salix alba</i>																1		1
<b>ST15</b>													<b>3</b>		<b>3</b>			<b>3</b>
<i>Prunus cerasifera</i>													3		3			3
<b>ST22</b>													<b>3</b>		<b>3</b>		<b>1</b>	<b>4</b>
<i>Ambrosia psilostachya</i>													1		1			1
<i>Ambrosia trifida</i>													2		2		1	3
<b>ST23</b>													<b>12</b>		<b>12</b>			<b>12</b>
<i>Acer rubrum</i>													1		1			1
<i>Ambrosia trifida</i>													2		2			2
<i>Helianthus</i> sp.													3		3			3
<i>Iva annua</i>													2		2			2
<i>Quercus rubra</i>													1		1			1
<i>Ratibida columnifera</i>													2		2			2
<i>Solidago virgaurea</i>													1		1			1
<b>ST24</b>													<b>5</b>		<b>5</b>	<b>3</b>		<b>8</b>
<i>Cercis occidentalis</i>													1		1			1
<i>Liquidambar styraciflua</i>													3		3	2		5
<i>Prunus dulcis</i>																1		1
<i>Ulmus crassifolia</i>													1		1			1
<b>ST25</b>													<b>4</b>		<b>4</b>			<b>4</b>
<i>Encelia farinosa</i>													4		4			4

<i>X. fastidiosa</i> 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			
<b>ST26</b>		2									12		14	8		22
<i>Alnus rhombifolia</i>											1		1			1
<i>Bidens pilosa</i>														1		1
<i>Lepidium ruderale</i>														1		1
<i>Prunus cerasifera</i>											2		2	1		3
<i>Prunus domestica</i>		2									1		3			3
<i>Prunus dulcis</i>														1		1
<i>Prunus persica</i>														1		1
<i>Prunus</i> sp.											8		8			8
<i>Raphanus sativus</i>														1		1
<i>Rubus fruticosus</i>														1		1
<i>Solanum americanum</i>														1		1
<b>ST27</b>											7		7		2	9
<i>Ginkgo biloba</i>											1		1			1
<i>Lagerstroemia</i> sp.											1		1			1
<i>Prunus cerasifera</i>															1	1
<i>Prunus dulcis</i>											2		2	1		3
<i>Prunus</i> sp.											3		3			3
<b>ST28</b>											4		4		1	5
<i>Ambrosia trifida</i>											2		2	1		3
<i>Helianthus</i> sp.											1		1			1
<i>Iva annua</i>											1		1			1
<b>ST32</b>											2		2		1	3
<i>Rubus fruticosus</i>															1	1
<i>Rubus</i> sp.											2		2			2
<b>ST34</b>											1		1			1
<i>Prunus cerasifera</i>											1		1			1
<b>ST35</b>											1		1			1
<i>Xanthium strumarium</i>											1		1			1
<b>ST36</b>											1		1	1		2

<i>X. fastidiosa</i> 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	
<i>Prunus cerasifera</i>															1		1
<i>Prunus</i> sp.													1	1			1
<b>ST37</b>													<b>2</b>	<b>2</b>			<b>2</b>
<i>Lupinus aridorum</i>													1	1			1
<i>Lupinus villosus</i>													1	1			1
<b>ST38</b>													<b>1</b>	<b>1</b>			<b>1</b>
<i>Platanus occidentalis</i>													1	1			1
<b>ST39</b>													<b>6</b>	<b>6</b>			<b>6</b>
<i>Koelreuteria bipinnata</i>													1	1			1
<i>Liquidambar styraciflua</i>													4	4			4
<i>Prunus</i> sp.													1	1			1
<b>ST40</b>													<b>4</b>	<b>4</b>		<b>1</b>	<b>5</b>
<i>Prunus cerasifera</i>													3	3		1	4
<i>Sambucus</i> sp.													1	1			1
<b>ST41</b>													<b>8</b>	<b>8</b>		<b>2</b>	<b>10</b>
<i>Prunus domestica</i>																1	1
<i>Prunus salicina</i>													2	2		1	3
<i>Prunus</i> sp.													2	2			2
<i>Ulmus americana</i>													2	2			2
<i>Ulmus</i> sp.													2	2			2
<b>ST42</b>													<b>18</b>	<b>18</b>		<b>3</b>	<b>21</b>
<i>Ambrosia trifida</i>													2	2		1	3
<i>Sapindus saponaria</i>													1	1			1
<i>Vaccinium ashei</i>													6	6			6
<i>Vaccinium corymbosum</i>													3	3		1	4
<i>Vaccinium corymbosum</i> x <i>V. angustifolium</i> hybrid																1	1
<i>Vaccinium</i> sp.													6	6			6
<b>ST43</b>													<b>7</b>	<b>7</b>		<b>2</b>	<b>9</b>
<i>Vaccinium corymbosum</i>													2	2		1	3

<i>X. fastidiosa</i> 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		
<i>Vaccinium corymbosum</i> x <i>V. angustifolium</i> hybrid																	1	1
<i>Vaccinium</i> sp.														5		5		5
<b>ST44</b>														2		2		2
<i>Quercus palustris</i>														1		1		1
<i>Quercus rubra</i>														1		1		1
<b>ST45</b>														6		6		6
<i>Acer griseum</i>														1		1		1
<i>Ampelopsis cordata</i>														1		1		1
<i>Cercis canadensis</i>														3		3		3
<i>Gleditsia triacanthos</i>														1		1		1
<b>ST46</b>														3		3		3
<i>Celtis occidentalis</i>														1		1		1
<i>Chionanthus</i> sp.														1		1		1
<i>Prunus armeniaca</i>														1		1		1
<b>ST48</b>														1		1		1
<i>Sapindus saponaria</i>														1		1		1
<b>ST49</b>														1		1		1
<i>Prunus</i> sp.														1		1		1
<b>ST50</b>														2		2		2
<i>Fraxinus americana</i>														1		1		1
<i>Fraxinus</i> sp.														1		1		1
<b>ST51</b>														4		4	1	5
Periwinkle (common name)														1		1		1
<i>Vinca</i> sp.														3		3	1	4
<b>ST58</b>														1		1	1	2
<i>Ambrosia trifida</i>														1		1	1	2
<b>ST63</b>		1														1		1
<i>Prunus domestica</i>			1													1		1
<b>ST67</b>		2														2	8	10

<i>X. fastidiosa</i> 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
<i>Bidens pilosa</i>														1		1
<i>Lepidium ruderale</i>														1		1
<i>Prunus domestica</i>		2												2		2
<i>Prunus salicina</i>														4		4
<i>Raphanus sativus</i>														1		1
<i>Solanum americanum</i>														1		1
<b>ST71</b>														<b>4</b>		<b>4</b>
<i>Bidens pilosa</i>														1		1
<i>Lepidium ruderale</i>														1		1
<i>Raphanus sativus</i>														1		1
<i>Solanum americanum</i>														1		1
<b>ST79</b>					<b>1</b>									<b>1</b>		<b>1</b>
<i>Polygala myrtifolia</i>					1									1		1
<b>ST81</b>									<b>99</b>	<b>1</b>				<b>100</b>	<b>16</b>	<b>116</b>
<i>Acacia saligna</i>									2					2		2
<i>Acacia</i> sp.									1					1		1
<i>Calicotome spinosa</i>									1					1		1
<i>Cistus albidus</i>									4					4		4
<i>Clematis cirrhosa</i>									3					3		3
<i>Ficus carica</i>									8					8		8
<i>Fraxinus angustifolia</i>									3					3		3
<i>Genista valdes-bermejoi</i>									2					2		2
<i>Helichrysum stoechas</i>									4					4		4
<i>Lavandula angustifolia</i>									3					3		3
<i>Lavandula dentata</i>									3					3		3
<i>Nerium oleander</i>									1					1		1
<i>Olea europaea</i>									11	1				12	15	27
<i>Olea europaea</i> subsp. <i>sylvestris</i>									3					3		3
<i>Phagnalon saxatile</i>									1					1		1

<i>X. fastidiosa</i> 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
<i>Phillyrea angustifolia</i>										3			3			3
<i>Phlomis italica</i>										2			2			2
<i>Polygala myrtifolia</i>										4			4			4
<i>Prunus domestica</i>										3			3			3
<i>Prunus dulcis</i>										14			14	1		15
<i>Rhamnus alaternus</i>										5			5			5
<i>Salvia officinalis</i>										3			3			3
<i>Salvia rosmarinus</i>										4			4			4
<i>Santolina chamaecyparissus</i>										5			5			5
<i>Santolina magonica</i>										2			2			2
<i>Spartium junceum</i>										2			2			2
<i>Vitex agnus-castus</i>										2			2			2
<b>ST82</b>																
<i>Vaccinium ashei</i>										2			2			2
<b>ST83</b>																
<i>Vaccinium ashei</i>										2			2			2
<b>ST87</b>																
<i>Acacia dealbata</i>										2			2			2
<i>Asparagus acutifolius</i>										2			2			2
<i>Calicotome spinosa</i>										3			3			3
<i>Calicotome villosa</i>										2			2			2
<i>Cercis siliquastrum</i>										3			3			3
<i>Cistus monspeliensis</i>										3			3			3
<i>Cistus salviifolius</i>										3			3			3
<i>Cistus</i> sp.										5			5			5
<i>Clematis vitalba</i>										1			1			1
<i>Cytisus scoparius</i>										3			3			3
<i>Elaeagnus angustifolia</i>										3			3			3
<i>Ficus carica</i>										3			3			3
<i>Helichrysum italicum</i>										2			2			2



<i>X. fastidiosa</i> 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
<i>Helichrysum</i> sp.							3						3			3
<i>Laurus nobilis</i>							2						2			2
<i>Lavandula angustifolia</i>							3						3			3
<i>Lavandula dentata</i>							2						2			2
<i>Lavandula</i> sp.							2						2			2
<i>Lonicera implexa</i>							2						2			2
<i>Myrtus communis</i>							2						2			2
<i>Olea europaea</i>														1		1
<i>Phagnalon saxatile</i>							2						2			2
<i>Polygala myrtifolia</i>							8						8			8
<i>Prunus dulcis</i>							8						8			8
<i>Rhamnus alaternus</i>							7						7			7
<i>Rosa canina</i>							1						1			1
<i>Salvia rosmarinus</i>							5						5			5
<i>Scabiosa atropurpurea</i> var. <i>maritima</i>							1						1			1
<i>Spartium junceum</i>							8						8			8
<b>ST88</b>					<b>6</b>								<b>6</b>			<b>6</b>
<i>Coronilla valentina</i> subsp. <i>glauca</i>					1								1			1
<i>Dimorphotheca ecklonis</i>					1								1			1
<i>Euryops chrysanthemoides</i>					1								1			1
<i>Hebe</i> sp.					1								1			1
<i>Lavandula</i> x <i>intermedia</i>					1								1			1
<i>Polygala myrtifolia</i>					1								1			1
<b>ST89</b>					<b>2</b>								<b>2</b>			<b>2</b>
<i>Myoporum</i> sp.					1								1			1
<i>Viburnum tinus</i>					1								1			1
<b>pauca</b>	<b>8</b>	<b>127</b>	<b>10</b>	<b>6</b>	<b>4</b>		<b>460</b>			<b>38</b>		<b>4</b>	<b>657</b>	<b>247</b>	<b>23</b>	<b>927</b>
<b>ST11</b>		<b>52</b>											<b>52</b>	<b>14</b>	<b>3</b>	<b>69</b>

<i>X. fastidiosa</i> 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	
<i>Catharanthus roseus</i>														2		2	
<i>Citrus sinensis</i>		22												22	4	3	29
<i>Citrus</i> sp.		29												29			29
<i>Coffea arabica</i>														4			4
<i>Coffea</i> sp.		1												1			1
<i>Nicotiana tabacum</i>														4			4
<b>ST12</b>		<b>3</b>												<b>3</b>		<b>3</b>	<b>6</b>
<i>Citrus sinensis</i>		2												2		2	4
<i>Citrus</i> sp.		1												1		1	2
<b>ST13</b>		<b>12</b>												<b>12</b>	<b>89</b>	<b>3</b>	<b>104</b>
<i>Arabidopsis thaliana</i>														1			1
<i>Bidens pilosa</i>														3			3
<i>Catharanthus roseus</i>														14			14
<i>Citrus reticulata</i>														3			3
<i>Citrus sinensis</i>		6												6	23	3	32
<i>Citrus</i> sp.		6												6	21		27
<i>Medicago sativa</i>														3			3
<i>Nicotiana clevelandii</i>														1			1
<i>Nicotiana tabacum</i>														12			12
<i>Ocimum basilicum</i>														3			3
Periwinkle (common name)														1			1
<i>Solanum americanum</i>														4			4
<b>ST14</b>		<b>8</b>												<b>8</b>		<b>4</b>	<b>12</b>
<i>Coffea arabica</i>		1												1			1
<i>Coffea</i> sp.		6												6		2	8
<i>Prunus domestica</i>																1	1
<i>Prunus</i> sp.		1												1		1	2
<b>ST16</b>		<b>40</b>												<b>40</b>	<b>15</b>	<b>1</b>	<b>56</b>
<i>Citrus sinensis</i>														1			1
<i>Coffea arabica</i>		2												2	7		9

<i>X. fastidiosa</i> 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
<i>Coffea</i> sp.		17											17		1	18
<i>Nicotiana tabacum</i>														6		6
<i>Olea europaea</i>		21											21	1		22
<b>ST53</b>			<b>8</b>		<b>4</b>		<b>460</b>					<b>3</b>	<b>475</b>	<b>106</b>	<b>6</b>	<b>587</b>
<i>Acacia saligna</i>							3						3			3
<i>Amaranthus retroflexus</i>							3						3			3
<i>Asparagus acutifolius</i>							3						3			3
<i>Catharanthus roseus</i>							2						2	9		11
<i>Chenopodium album</i>							5						5	1		6
<i>Cistus creticus</i>							1						1			1
<i>Coffea arabica</i>			3										5	1		6
<i>Coffea</i> sp.													1	1	2	4
<i>Dimorphantheca fruticosa</i>							1						1			1
<i>Dodonaea viscosa</i>							2						2			2
<i>Eremophila maculata</i>							1						1			1
<i>Erigeron bonariensis</i>							3						3			3
<i>Erigeron</i> sp.							6						6			6
<i>Erigeron sumatrensis</i>							1						1			1
<i>Euphorbia chamaesyce</i>							2						2			2
<i>Euphorbia terracina</i>							1						1			1
<i>Grevillea juniperina</i>							1						1			1
<i>Hebe</i> sp.							1						1			1
<i>Heliotropium europaeum</i>							3						3			3
<i>Jasminum azoricum</i>														2		2
<i>Laurus nobilis</i>							2						2			2
<i>Lavandula angustifolia</i>							3						3			3
<i>Lavandula</i> sp.							1						1			1
<i>Lavandula stoechas</i>							2						2			2
<i>Medicago sativa</i>														1		1
<i>Myoporum insulare</i>							1						1			1

<i>X. fastidiosa</i> 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
<i>Myrtus communis</i>							2						2			2
<i>Nerium oleander</i>			5				18						23	8	4	35
<i>Nicotiana tabacum</i>														5		5
<i>Olea europaea</i>					1		328						329	52		381
<i>Pelargonium fragrans</i>							1						1			1
<i>Pelargonium</i> sp.							1						1			1
Periwinkle (common name)							1						1			1
<i>Phillyrea latifolia</i>							2						2			2
<i>Pistacia vera</i>							1						1			1
<i>Polygala myrtifolia</i>					1		22						23	9		32
<i>Prunus avium</i>							9						9	4		13
<i>Prunus domestica</i>														2		2
<i>Prunus dulcis</i>							10						10	4		14
<i>Prunus persica</i>					1								1			1
<i>Quercus ilex</i>					1								1			1
<i>Quercus petraea</i>														1		1
<i>Rhamnus alaternus</i>							4						4			4
<i>Salix alba</i>														1		1
<i>Salvia rosmarinus</i>							5						5			5
<i>Spartium junceum</i>							2						2			2
<i>Vinca minor</i>							1						1			1
<i>Vitis vinifera</i>														5		5
<i>Westringia fruticosa</i>							4						4			4
<i>Westringia glabra</i>							1						1			1
<b>ST64</b>		<b>1</b>											<b>1</b>			<b>1</b>
<i>Citrus sinensis</i>		1											1			1
<b>ST65</b>		<b>1</b>											<b>1</b>	<b>2</b>		<b>3</b>
<i>Catharanthus roseus</i>														2		2
<i>Citrus sinensis</i>		1											1			1
<b>ST66</b>		<b>1</b>											<b>1</b>			<b>1</b>

<i>X. fastidiosa</i> 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
<i>Coffea arabica</i>		1											1			1
<b>ST68</b>		<b>1</b>											<b>1</b>			<b>1</b>
<i>Coffea arabica</i>		1											1			1
<b>ST69</b>	<b>6</b>												<b>6</b>		<b>1</b>	<b>7</b>
<i>Citrus sinensis</i>	4												4		1	5
<i>Olea europaea</i>	2												2			2
<b>ST70</b>		<b>2</b>											<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>
<i>Catharanthus roseus</i>														2		2
<i>Hibiscus fragilis</i>															1	1
<i>Hibiscus rosa-sinensis</i>		1											1			1
<i>Hibiscus</i> sp.		1											1		1	2
<b>ST71</b>		<b>1</b>											<b>1</b>			<b>1</b>
<i>Prunus domestica</i>		1											1			1
<b>ST73</b>			<b>1</b>									<b>1</b>	<b>2</b>	<b>4</b>		<b>6</b>
<i>Catharanthus roseus</i>														1		1
<i>Coffea arabica</i>			1										1			2
<i>Nerium oleander</i>														1		1
<i>Nicotiana tabacum</i>														1		1
<i>Polygala myrtifolia</i>														1		1
<b>ST73 and ST53</b>			<b>1</b>										<b>1</b>			<b>1</b>
<i>Coffea arabica</i>			1										1			1
<b>ST74</b>				<b>6</b>									<b>6</b>			<b>6</b>
<i>Coffea arabica</i>				6									6			6
<b>ST78</b>	<b>2</b>												<b>2</b>			<b>2</b>
<i>Olea europaea</i>	1												1			1
<i>Prunus dulcis</i>	1												1			1
<b>ST80</b>										<b>38</b>			<b>38</b>	<b>15</b>		<b>53</b>
<i>Acacia saligna</i>													2			2
<i>Acacia</i> sp.													1			1
<i>Cistus albidus</i>													4			4

<i>X. fastidiosa</i> 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
<i>Elaeagnus angustifolia</i>										1			1			1
<i>Genista hirsuta</i>										2			2			2
<i>Lavandula angustifolia</i>										2			2			2
<i>Lavandula dentata</i>										3			3			3
<i>Olea europaea</i>										5			5	15		20
<i>Olea europaea</i> subsp. <i>sylvestris</i>										2			2			2
<i>Polygala myrtifolia</i>										3			3			3
<i>Prunus dulcis</i>										6			6			6
<i>Salvia officinalis</i>										1			1			1
<i>Salvia rosmarinus</i>										3			3			3
<i>Thymus vulgaris</i>										1			1			1
<i>Ulex parviflorus</i>										2			2			2
<b>ST84</b>		<b>3</b>											<b>3</b>			<b>3</b>
<i>Olea europaea</i>		3											3			3
<b>ST85</b>		<b>1</b>											<b>1</b>			<b>1</b>
<i>Olea europaea</i>		1											1			1
<b>ST86</b>		<b>1</b>											<b>1</b>			<b>1</b>
<i>Olea europaea</i>		1											1			1
<b>sandyi</b>			<b>4</b>		<b>1</b>	<b>1</b>					<b>25</b>	<b>1</b>	<b>32</b>	<b>9</b>	<b>1</b>	<b>42</b>
<b>ST5</b>											<b>25</b>		<b>25</b>	<b>4</b>		<b>29</b>
<i>Hemerocallis</i> sp.										1			1			1
<i>Jacaranda mimosifolia</i>										1			1			1
<i>Magnolia grandiflora</i>										1			1			1
<i>Nerium oleander</i>										22			22	1		23
<i>Prunus dulcis</i>														1		1
<i>Vinca major</i>														2		2
<b>ST72</b>			<b>2</b>			<b>1</b>							<b>4</b>	<b>5</b>	<b>1</b>	<b>10</b>
<i>Coffea arabica</i>			2										3	1	1	5
<i>Coffea</i> sp.						1							1			1

<i>X. fastidiosa</i> 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	
<i>Nerium oleander</i>														1		1
<i>Olea europaea</i>														3		3
<b>ST76</b>			<b>2</b>		<b>1</b>									<b>3</b>		<b>3</b>
<i>Coffea arabica</i>			1											1		1
<i>Coffea</i> sp.			1											1		1
<i>Polygala myrtifolia</i>					1									1		1
<b>Grand Total</b>	<b>8</b>	<b>132</b>	<b>39</b>	<b>6</b>	<b>116</b>	<b>1</b>	<b>551</b>	<b>21</b>	<b>106</b>	<b>352</b>	<b>401</b>	<b>5</b>	<b>1,738</b>	<b>560</b>	<b>49</b>	<b>2,347</b>

## Appendix E – References included in this update

List of the 30 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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- 25) Europhyt notification n. 718 (Update 11).
- 26) Europhyt notification n. 753 (Update 19).
- 27) Europhyt notification n. 1255 (Update 2).
- 28) Europhyt notification n. 246 (Update 18).
- 29) Europhyt notification n. 1528 (Update 2).
- 30) Europhyt notification n. 1917 (Update 00).

## 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 7** (doi: [10.5281/zenodo.1339343](https://doi.org/10.5281/zenodo.1339343)).