

[^{F1}ANNEX IV

Requirements concerning measures per genera or species and category pursuant to Article 10(4), Article 16(4), Article 21(4) and Article 26(2)

Textual Amendments

- F1** Substituted by Commission Implementing Directive (EU) 2020/177 of 11 February 2020 amending Council Directives 66/401/EEC, 66/402/EEC, 68/193/EEC, 2002/55/EC, 2002/56/EC and 2002/57/EC, Commission Directives 93/49/EEC and 93/61/EEC and Implementing Directives 2014/21/EU and 2014/98/EU as regards pests of plants on seeds and other plant reproductive material (Text with EEA relevance).

6. *Fragaria* L.

(a) All categories

Visual inspection

Visual inspections shall be carried out twice a year during the growing season. The foliage of *Fragaria* L. shall be visually inspected concerning the presence of *Phytophthora fragariae* C.J. Hickman.

For propagating material and fruit plants produced by micropropagation, and which are maintained for a period shorter than three months, only one visual inspection during this period is necessary.

(b) Pre-basic category

Sampling and testing

Each pre-basic mother plant shall be sampled and tested one year after its acceptance as a pre-basic mother plant and subsequently once per growing season concerning the presence of RNQPs listed in Annex II, and in the case of doubts concerning the presence of RNQPs listed in Annex I.

(c) Basic category

Sampling and testing

A representative sample of roots shall be sampled and tested in the case of symptoms of *Phytophthora fragariae* C.J. Hickman on the foliage. Sampling and testing shall be carried out if the symptoms of *Arabis* mosaic virus, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus and Tomato black ring virus are unclear upon visual inspection. Sampling and testing shall be carried out in the case of doubts concerning the presence of RNQPs, other than *Arabis* mosaic virus, *Phytophthora fragariae* C.J. Hickman, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and Tomato black ring virus, listed in Annexes I and II.

Requirements with regard to the production site, place of production or area

- (i) — *Phytophthora fragariae* C.J. Hickman
- propagating material and fruit plants of the basic category shall be produced in areas known to be free from *Phytophthora fragariae* C.J. Hickman; or
- no symptoms of *Phytophthora fragariae* C.J. Hickman are observed on the foliage of propagating material and fruit plants of the basic category in the production site over the last complete growing season, and any infected

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- propagating material and fruit plants and plants in a surrounding zone of at least 5 m radius have been marked, excluded from lifting and marketing, and destroyed after uninfected propagating material and fruit plants have been lifted;
- *Xanthomonas fragariae* Kennedy & King
 - propagating material and fruit plants of the basic category shall be produced in areas known to be free from *Xanthomonas fragariae* Kennedy & King; or
 - no symptoms of *Xanthomonas fragariae* Kennedy & King are observed on propagating material and fruit plants of the basic category in the production site over the last complete growing season, and any symptomatic plants in the immediate vicinity have been rogued out and immediately destroyed.
- (ii)
- *Phytophthora fragariae* C.J. Hickman
 - there shall be a rest period, during which the propagating material and fruit plants concerned shall not be grown, which shall be of at least ten years between findings of *Phytophthora fragariae* C.J. Hickman and the next planting; or
 - the cropping and soil borne disease history of the production site shall be recorded;
 - *Xanthomonas fragariae* Kennedy & King
 - there shall be a rest period, during which the propagating material and fruit plants concerned shall not be grown, which shall be of at least one year between findings of *Xanthomonas fragariae* Kennedy & King and the next planting;
- (iii) Requirements for RNQPs, other than *Xanthomonas fragariae* Kennedy & King and *Phytophthora fragariae* C.J. Hickman and other than viruses:
- The percentage of propagating material and fruit plants of the basic category in the production site over the last complete growing season, showing symptoms of each of the following RNQPs shall not exceed:
 - 0,05 % in the case of *Aphelenchoides besseyi*;
 - 0,1 % in the case of Strawberry multiplier disease phytoplasma;
 - 0,2 % in the case of:
 - Candidatus Phytoplasma asteris* Lee *et al.*;
 - Candidatus Phytoplasma pruni*;
 - Candidatus Phytoplasma solani* Quaglino *et al.*;
 - Verticillium albo-atrum* Reinke & Berthold;
 - Verticillium dahliae* Kleb;
 - 0,5 % in the case of:
 - Chaetosiphon fragaefolii* Cockerell;
 - Ditylenchus dipsaci* (Kuehn) Filipjev;
 - Meloidogyne hapla* Chitwood;
 - Podosphaera aphanis* (Wallroth) Braun & Takamatsu;
 - 1 % in the case of *Pratylenchus vulnus* Allen & Jensen; and that propagating material and those fruit plants and any surrounding host plants have been rogued out and destroyed; and
 - In the case of a positive test result for propagating material and fruit plants of the basic category showing symptoms of *Arabis* mosaic virus, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and

Tomato black ring virus, the propagating material and fruit plants concerned shall be rogued out and immediately destroyed.

(iv) Requirements for all viruses:

symptoms of all viruses listed in Annexes I and II shall have been observed on no more than 1 % of propagating material and fruit plants of the basic category in the production site over the last complete growing season, and that propagating material and those fruit plants and any symptomatic plants in the immediate vicinity shall have been rogued out and immediately destroyed.

(d) **Certified category**

Sampling and testing

A representative sample of roots shall be sampled and tested in the case of symptoms of *Phytophthora fragariae* C.J. Hickman on the foliage. Sampling and testing shall be carried out if the symptoms of *Arabidopsis* mosaic virus, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and Tomato black ring virus are unclear upon visual inspection. Sampling and testing shall be carried out in the case of doubts concerning the presence of RNQPs, other than *Arabidopsis* mosaic virus, *Phytophthora fragariae* C.J. Hickman, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and Tomato black ring virus, listed in Annexes I and II.

Requirements with regard to the production site, place of production or area

- (i) — *Phytophthora fragariae* C.J. Hickman
- propagating material and fruit plants of the certified category shall be produced in areas known to be free from *Phytophthora fragariae* C.J. Hickman; or
- no symptoms of *Phytophthora fragariae* C.J. Hickman are observed on the foliage of propagating material and fruit plants of the certified category in the production site over the last complete growing season, and any infected propagating material and fruit plants and plants in a surrounding zone of at least 5 m radius have been marked, excluded from lifting and marketing, and destroyed after uninfected plants have been lifted;
- *Xanthomonas fragariae* Kennedy & King
- propagating material and fruit plants of the certified category shall be produced in areas known to be free from *Xanthomonas fragariae* Kennedy & King; or
- symptoms of *Xanthomonas fragariae* Kennedy & King have been observed on no more than 2 % of propagating material and fruit plants of the certified category in the production site over the last complete growing season, and that propagating material and those fruit plants, and any symptomatic plants in the immediate vicinity have been rogued out and immediately destroyed.
- (ii) — *Phytophthora fragariae* C.J. Hickman
- there shall be a rest period, during which the propagating material and fruit plants concerned shall not be grown, which shall be of at least ten years between findings of *Phytophthora fragariae* C.J. Hickman and the next planting; or
- the cropping and soil borne disease history of the production site shall be recorded;
- *Xanthomonas fragariae* Kennedy & King

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- there shall be a rest period, during which the propagating material and fruit plants concerned shall not be grown, which shall be of at least one year between findings of *Xanthomonas fragariae* Kennedy & King and the next planting;
- (iii) Requirements for RNQPs, other than *Xanthomonas fragariae* Kennedy & King and *Phytophthora fragariae* C.J. Hickman and other than viruses:
- the percentage of propagating material and fruit plants of the certified category in the production site over the last complete growing season, showing symptoms of each of the following RNQPs shall not exceed:
 - 0,1 % in the case of *Phytonemus pallidus* Banks;
 - 0,5 % in the case of:
 - Aphelenchoides besseyi* Christie;
 - Strawberry multiplier disease phytoplasma;
 - 1 % in the case of:
 - Aphelenchoides fragariae* (Ritzema Bos) Christie;
 - Candidatus Phlomobacter fragariae* Zreik, Bové & Garnier;
 - Candidatus Phytoplasma asteris* Lee *et al.*;
 - Candidatus Phytoplasma australiense* Davis *et al.*;
 - Candidatus Phytoplasma fragariae* Valiunas, Staniulis & Davis;
 - Candidatus Phytoplasma pruni*;
 - Candidatus Phytoplasma solani* Quaglino *et al.*;
 - Chaetosiphon fragaefolii* Cockerell;
 - Clover phyllody phytoplasma;
 - Ditylenchus dipsaci* (Kuehn) Filipjev;
 - Meloidogyne hapla* Chitwood Chitwood;
 - Podosphaera aphanis* (Wallroth) Braun & Takamatsu;
 - Pratylenchus vulnus* Allen & Jensen;
 - Rhizoctonia fragariae* Hussain & W.E.McKeen;
 - 2 % in the case of:
 - Verticillium albo-atrum* Reinke & Berthold;
 - Verticillium dahliae* Kleb; and that propagating material and those fruit plants, and any surrounding host plants have been rogued out and destroyed; and
 - In the case of a positive test result for propagating material and fruit plants of the certified category showing symptoms of *Arabis* mosaic virus, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and Tomato black ring virus, the propagating material and fruit plants concerned shall be rogued out and immediately destroyed.
- (iv) Requirements for all viruses
- Symptoms of all viruses listed in Annexes I and II have been observed on no more than 2 % of propagating material and fruit plants of the certified category in the production site over the last complete growing season, and that propagating material and those fruit plants and any symptomatic plants in the immediate vicinity have been rogued out and immediately destroyed.

(e) **CAC category**

Sampling and testing

A representative sample of roots shall be sampled and tested in the case of symptoms of *Phytophthora fragariae* C.J. Hickman on the foliage. Sampling and testing shall be carried out if the symptoms of *Arabis* mosaic virus, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and Tomato black ring virus are unclear upon visual inspection. Sampling and testing shall be carried out in the case of doubts concerning the presence of RNQPs, other than *Arabis* mosaic virus, *Phytophthora fragariae* C.J. Hickman, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and Tomato black ring virus, listed in Annexes I and II.

Requirements with regard to the production site, place of production or area

- (i) — *Phytophthora fragariae* C.J. Hickman
- propagating material and fruit plants of the CAC category shall be produced in areas known to be free from *Phytophthora fragariae* C.J. Hickman; or
 - no symptoms of *Phytophthora fragariae* C.J. Hickman are observed on the foliage of propagating material and fruit plants of the CAC category in the production site over the last complete growing season, and any infected propagating material and fruit plants and plants in a surrounding zone of at least 5 m radius have been marked, excluded from lifting and marketing, and destroyed after uninfected propagating material and fruit plants have been lifted;
- *Xanthomonas fragariae* Kennedy & King
- propagating material and fruit plants of the CAC category shall be produced in areas known to be free from *Xanthomonas fragariae* Kennedy & King; or
 - no symptoms of *Xanthomonas fragariae* Kennedy & King are observed on propagating material and fruit plants of the CAC category in the production site over the last complete growing season, and any symptomatic plants in the immediate vicinity have been rogued out; or
 - symptoms of *Xanthomonas fragariae* Kennedy & King have been observed on no more than 5 % of propagating material and fruit plants of the CAC category in the production site over the last complete growing season, and that propagating material and those fruit plants, and any symptomatic plants in the immediate vicinity have been rogued out and immediately destroyed.
- (ii) Requirements for viruses:

In the case of a positive test result for propagating material and fruit plants of the CAC category showing symptoms of *Arabis* mosaic virus, Raspberry ringspot virus, Strawberry crinkle virus, Strawberry latent ringspot virus, Strawberry mild yellow edge virus, Strawberry vein banding virus, and Tomato black ring virus, the propagating material and fruit plants concerned shall be rogued out and immediately destroyed.]