### How to recognise Beech Leaf Disease?

## Can you help us?

#### **Symptoms of Beech Leaf Disease**

In spring and summer:

- Dark green bands between the parallel veins on the leaves (best visible when observed from below)
- Thick, crinkled and leathery leaves with curled margins
- Interveinal leaf cupping and smaller leaves



In autumn and winter:

- Yellowish brown bands on attached and fallen leaves
- Bud abortion and branch dieback
- Canopy thinning and tree decline within 3-7 years



A **leaf nematode**, *Litylenchus crenatae* subsp. *mccannii* is found in diseased beech leaves and buds.

Beech Leaf Disease and *L. crenatae* have not been reported in Europe so far.

Beech Leaf Disease is included in the **EPPO Alert List**. This list contains plant-harmful organisms that may present a phytosanitary risk for the region. Therefore, it is important to report symptoms of Beech Leaf Disease. **Early detection** allows for fast implementation of control measures so that Beech Leaf Disease **cannot become established**.

If you spot symptoms of Beech Leaf Disease:

Report via waarnemingen.be/species/ Q-organismen

Add a photo of the damage and note the precise location.

## More info?

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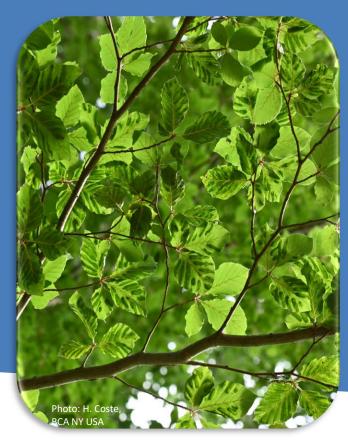


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# Beware of Beech Leaf Disease!





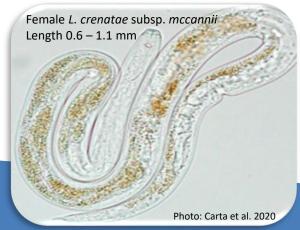
# Distribution Management Host plants



Beech Leaf Disease was first detected in Ohio, **USA** in 2012. It is now present in more than 10 **north-eastern states** and **in Canada (Ontario).** The nematode found in leaves with Beech Leaf Disease symptoms was also found in beech trees (*Fagus crenatae*) in **Japan**, but does not cause tree decline there.

Beech Leaf Disease affects beech trees (*Fagus* spp.) in forests, open landscapes, parks, arboreta and gardens.

How Beech Leaf Disease spreads is still unknown. It could be via windborne water, mites, insects, birds, beech nuts or imported plants.





#### **Phytosanitary measures**

- Avoid moving beech tree material (branches, twigs, leaves and seedlings and nursery stock), soil or organic matter from affected areas.
- **Inspect beech nursery stock** for symptoms of Beech Leaf Disease before purchase.
- Do not import beech planting materials illegally.





Until now, only **beech trees** (*Fagus* spp.) are reported to be affected.

Beech Leaf Disease affects *Fagus grandifolia* (American beech), different cultivars of our common *F. sylvatica* (European beech) and *F. orientalis* (Oriental beech).

Other beech species (*F. engleriana*, *F. crenatae*,...) are probably also hosts plants.

