

# ASTA Seed Pest Database

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- › Database that contains information on pests that have caused phytosanitary problems for ASTA members
  - › Pests responsible for rejected shipments
  - › Pests on import permits that are not in PExD
  - › Pests in country harmful organism lists that impact seed movements
  - › Pests identified in proposed rules (WTO notices)

# ASTA Seed Pest Database Summary

- ▶ - *162 pests have been listed to date;*
- ▶ - *31 bacteria*
- ▶ - *81 fungi*
- ▶ - *44 viruses*
- ▶ - *6 nematodes or parasitic plants*

# ASTA Seed Pest Database Summary

- ▶ *Primarily pests of vegetable, corn, soybean, alfalfa, small grains*
  - ▶ - *653 host/pest combinations*
  - ▶ - *125 “yes”—pathway proven (19%)*
  - ▶ - *106 “Pathway not proven\*” (16%)*
  - ▶ - *Remaining 65% seed is not a pathway, not proven to be a pathway or the crop is not a host of the pest”*

# Information in the Database:

- ▶ Distribution of the pest in the world
- ▶ Basic biology epidemiology, host range, etc.
- ▶ Role of seed as a potential pathway for introduction into new environments
  - ▶ Plant species not a host e.g. **Alternaria brassicicola/carrot**
  - ▶ Seed not a pathway (plays no role in spreading a given pest) e.g. **Pseudomonas syringae pv syringae/cucumber**
  - ▶ Pathway not proven (no evidence for seed as a pathway under natural conditions) e.g. **Candidatus Liberobacter solanacearum/carrot**
  - ▶ Seed borne e.g. **PMMoV/pepper**
  - ▶ Seed transmitted e.g. **CGMMV/melon**
- ▶ Available treatments
- ▶ Available seed testing methods

# ASTA Seed Pest Database

- ▶ Compatible with ISF regulated pest list database
- ▶ ASTA database is organized by pest
- ▶ ISF database is organized by commodity (currently 10 vegetable seed species; tomato, Brassica, bean and corn seed lists are under development)
- ▶ Both databases are developed using the same rules, procedures, and formats and contain the same categories of information
- ▶ ASTA does not develop information on pests that are in the ISF database; eventually both databases will merge into one
- ▶ ASTA database contains information on many pests of concern in the Americas, especially Mexico, Brazil and Chile

<http://www.phytodatabase.org/>

Username: PDBGuest

Password: jEUtx4591A!

*Thank you for your attention!*

