

Present status of fire blight (*Erwinia amylovora*) in Turkey

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T.C.
GIDA TARIM VE HAYVANCILIK
BAKANLIĞI

First detection

- on pear , Sultandağ (Afyon) in 1985



1980's

- Severe outbreak on pears in Egypt (1982)
- First detection in Cyprus in 1984
- First detection in Israel in 1985





The potential origin of fire blight in Turkey



The pattern of spread of fire blight in the Middle East, the Balkans and Mediterranean area since 1982 suggests that infections in Turkey may be part of an expanding epidemic originating in Egypt

Severe outbreaks in 1985-86 in Turkey

Fire blight was common on pear, quince and wild pear.

Low incidence of fire blight was found on apple and loquat (*Eriobotrya japonica*).

In 1987, fire blight appeared almost in all pear growing areas of Turkey and was severe in most locations.

In 2004 severe outbreak on quince was reported

Reaction of some cultivars to fire blight were determined. Within the commercial pear cultivars, Ankara was the most resistant one and Santa Maria the most susceptible

The disease is known on

- **pear**
- **apple**
- **quince**
- **wild pear**
- **loquat**
- **medlar**
- **blackberry (2008-2009)**
- **meadowsweet (*Spirea prunifolia*)(2014)**



Many researches have been carried out

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- On the disease resistance
- On chemical control
- Forecasting models
 - Maryblight, BRS;BIS95 and Cougarblight were tested in different regions on pear and apple
 - Maryblight and BIS 95 were recommended
 - Maryblight is used to predict the disease in some regions
- On biological control
- Etc.



Disease management in Turkey



- Cultural measures
- Chemical control
 - Treatment with Bordeaux mixture at the end of the dormant period
 - Treatment with registered plant protection products (copper compounds and Phosetyl Al) during blossom period
 - Timing
 - IR day predicted by Maryblight model
 - Phenology
- Use of antibiotics is prohibited



E. amylovora



- Present in quarantine list of Turkey
- Takes part in Plant Passport system
- All kind of imported plants for planting are inspected and representative samples are analyzed in the labs
- All nurseries are inspected for disease symptoms
- Movement of infected plant material is prohibited

THANK YOU FOR YOUR ATTENTION!!!!!!

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