



# THE RECENT INCIDENCES OF PHYTOPHTHORA LEAF SPOT, STEM BLIGHT, AND FOOT ROT

*Phytophthora blight* is a fungus that is not only present in soil. This fungus produces microscopic, lemon-shaped structures called sporangia in which several zoospores are formed. These zoospores are released into a film of water, can be dispersed by wind and rain splash and such zoospores can colonize young tender leaves or stem, by entering the tissue through stomatal openings or wounds. Once the fungus gets inside a host tissue, it will grow and produce several sporangia.



Blocks with Disease symptoms: No. Blocks Checked

taken by J.S. Fackelmals, Plant Pathologist, in Citrus County, Florida, in 1916. His name appears on a card attached to one of the negatives. Two are reproduced here.

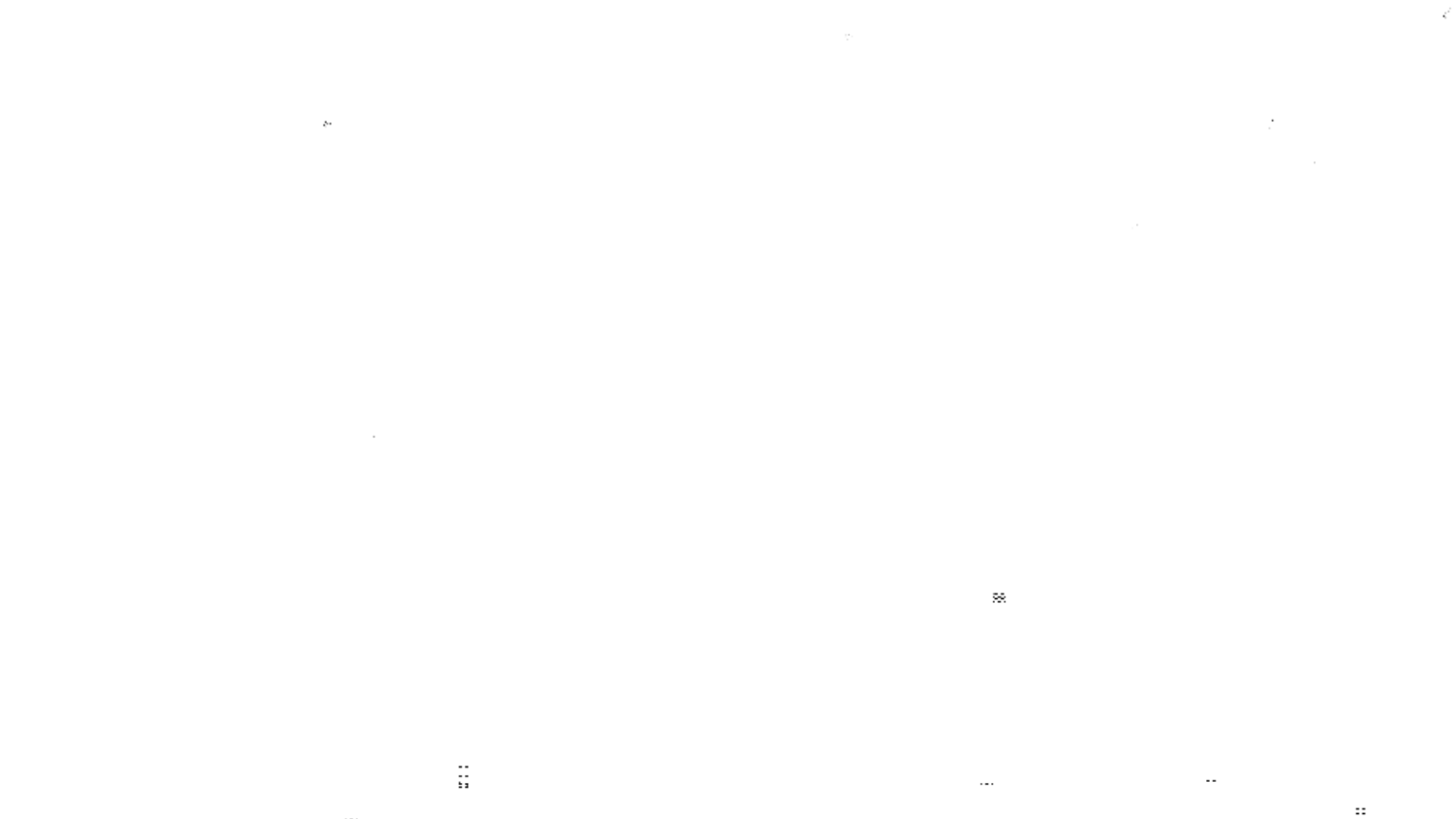
Canker, a very serious bacterial disease of citrus, was eradicated from Texas in 1943. It has reappeared in Florida and is spreading in that state. This is of concern to Texas, and hence there is an ongoing survey funded by the USDA to try and ensure that we remain canker-free (see August 1999 newsletter article by Mami Skaria. On the outlook for citrus canker).

Sweet orange in Kingsville (1915) John da Graca and Mami Skaria. Carl (Top) and Alvin (Bottom)

# CITRUS FLOWERING

Citrus bloom in the past couple of years has been hard to understand. Last season, you'll recall that some ornamentals bloomed two, three or even four times. This season seems to be more nearly normal, yet so the grapefruit ornamentals bloomed in late February, while others produced only one crop in March. The amount of bloom on some trees was substantial, yet adjacent trees bloomed rather sparsely.

Some interesting work to relate late fall and early winter temperatures to citrus flower bud induction. As



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# GUIDE FOR TEXAS CITRUS GROWERS ON HEDGING AND TOPPING BEING PREPARED

VISITORS AT THE CITRUS CENTI

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eloping Row

Company Representatives that visited Dr. Fren  
March 1987: Eric D. Drees, Production, Field Dev

...miticide; and Dr. Alan Dainville and, 1980  
...Western...  
...with Texas cli- Chemical, Lindale, TX, conducted grower and distribu- actual hedging and topping research, Sou  
...s from experience of... for meetings on newly...  
...law... miticide/insecticide.

Dr. Don Grosman, Entomologist with the Texas For- "how to" guide.  
...est Service, Lufkin, TX; and Hongyu (Tony) Duan, Ento... The handout will  
...ing program for both orange and grapefruit growers...  
...Besides specific... questions on when and...  
...how to hedge or top trees, the...  
...research... be available some time in May.

from Europe, Lidner  
... from the Euro...  
... in Ireland, and Giancarlo Pouzzi  
... visited the Center as part of a party to a tour to  
... familiarize themselves with citriculture in Texas.

... Mentio...  
... Subscriptions to the bimonthly Newsletter are \$5 a year or \$8 for two  
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