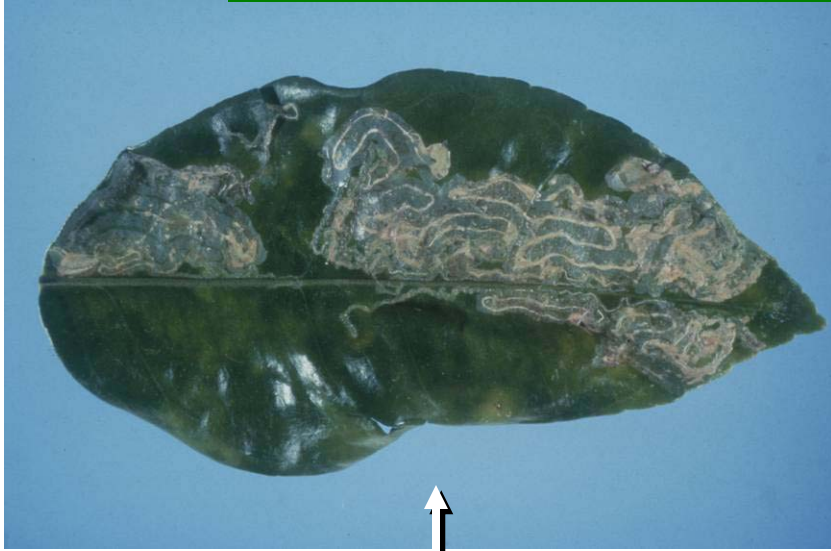


Advent of the citrus leaf miner- 1992



Leaf miner damage
(above)

Leaf miner larva in mine
(upper right)

Adult moth of the citrus
leaf miner (right)

The Role of Citrus Leaf Miner in Epidemiology of Citrus Canker

Phyllocnistis citrella

- Leaf miner larvae tunnel under leaf cuticle
- Leaf miner prefers young flush, same as CC
- Feeding causes large amounts of wounded tissue
- Canker inoculum easily washes into wounds
- Wounding increases the number of infection courts, infection is facilitated. (Inoculum is 100 to 1,000 times more efficient in starting infection when wounds are present than when wounds are absent)
- More inoculum is produced from more lesions
- No stage of the insect life cycle serves as a vector

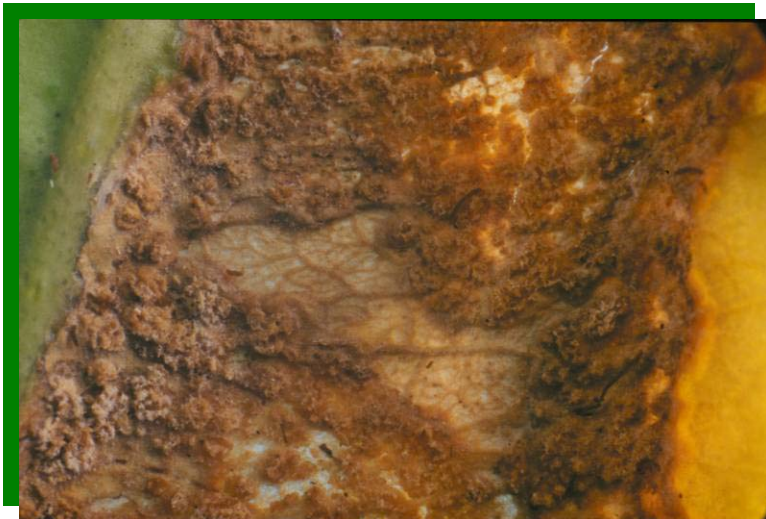
Note: Natural resistance is greatly diminished in the presence of leaf miner wounds



Leaf miner damage
w/canker - front of leaf



Leaf miner damage
w/canker - back of leaf



Close up view of
confluent canker
lesions in leaf miner
wounds