
Individual Protective Covers

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Summary: Psyllid exclusion is the most effective strategy to keep young citrus trees free from huanglongbing (HLB). Individual protective covers (IPC) are a novel strategy based on psyllid exclusion of individual trees using a protective mesh bag. This strategy is currently being adopted by many growers. Individual protective covers can be installed on solid blocks of trees or in resets. Individual protective covers are especially valuable for planting reset trees in gaps left by dead or removed

trees in mature groves where HLB incidence is typically higher and the risk of infection is therefore greatest. Individual protective covers should be placed immediately during planting to prevent any exposure of trees to the psyllids. In our research, we have found that IPCs effectively exclude psyllids, maintain trees free from HLB, and reduce canker incidence. We also found IPCs do not exclude all pests, and armyworms, black scales, and mites are often present. This means that regular scouting and insecticide

application may still be necessary. Fruit produced under IPCs have better internal quality and significantly more soluble solids (°Brix) than fruit from HLB-affected trees. Fruit quality is maintained at least for two years after IPC removal, even though trees become HLB-positive.

Take Home Message:

- IPCs exclude psyllids effectively.
- Other pests need to be regularly monitored and treated.
- Fruit quality is greatly improved by IPCs.

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