CITRUS PEST UPDATE
TEXAS

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Citrus Canker Quarantine

*Xanthomonas citri (axonopodis) pv. citri*

CANKER QUARANTINED AREAS

*Asiatic strain (all citrus varieties)*

**Harris County**, Harris quarantine
- 2 Sour orange trees in a city park destroyed

**Fort Bend County**, Richmond quarantine
- 1,115 positive trees on 121 properties
- All the positive trees removed with homeowner consent.

*Wellington stain (limes and lemons)*

**Cameron County**, Rancho Viejo quarantine
- 218 positive trees removed on 159 properties with homeowner consent.

Total 1,333 positive trees on 280 properties
CITRUS CANKER SYMPTOMS
(Asiatic Strain)
Citrus Canker Richmond Quarantined Area
Fort Bend & Harris Counties, Texas
1,004 citrus trees removed from 121 properties

Harris Quarantine
(May 20, 2016)
1.23 sq. miles

Richmond Quarantine
Ft Bend County
March 27, 2018
Area 43.5 to 53.1 sq. miles
Citrus Canker
Wellington strain
(Discovered October 23, 2015)

218 limes/lemon trees removed
From 159 properties
Tree Removal

Canker Solve RC Spray

QHS disinfectant Spray
Adult Psyllid

White waxy excretions

Symptoms

Asian Citrus Psyllid & Citrus Greening Quarantines

Eggs

Nymph
Citrus Greening Gulf Coast
Coastal Bend & Valley
Quarantined Areas

HLB +Samples 639/1193 (32%)
SCHEDULED PSYLLID TREATMENT

Dormant Sprays (2)  
Drench  
Foliar sprays

Section 18: Imidacloprid — foliar, drench
Section 18: Clothianidin — drench (nursery plants)
Section 3?: Sulfoxaflor — adults & nymphs
Section 24 (c): Imidacloprid (CoreTect tablets) - wholesale nurseries, homeowners (long-lasting)

CITRUS PHENOLOGY IN TEXAS (M. Setamou)

Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

Harvest  
Vegetative Flush  
Bud Break  
Flowering & Fruit Set  
Root Flush  
Fruit Development & Expansion  
Maturation  
Root Flush  
Root Flush

Resistance Management
Asian Citrus Psyllid Biocontrol
*Tamarixia radiata* production
CPHST Laboratory, Mission, Texas

Total released: 8.5 million (2017-2018)
Released in urban areas: 365,200
TDA: 38,000 parasitoids (9 HLB quarantined counties)

2010: 43 ACP nymphs per flush
2016: 3.8 ACP nymphs per flush
2017: 2.4 ACP nymphs per flush

*Effectiveness: 94%*
Citrus Production in Texas

- Acreage
- Total tons

Returns ($$) on citrus production in Texas

ACP management
Mexican Fruit Fly Quarantine
Texas

33.4 sq. miles
91.1 sq. miles

Sterile MFF Releases
Released 8,553,580 Acres 16,240.4 Average 527/Acre
With Cordial Thanks To

USDA-APHIS-PPQ
Texas A&M Kingsville Citrus Center
Texas A&M Plant Disease Diagnostic Lab
USDA CPHST Mission Lab
USDA-APHIS-PPQ Moorefield Fruit Fly Facility
TDA Regional & CHRP staff
USDA-APHIS-PPQ CAPS
DHS-CBP