### Oak Wilt Presentation

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City Council Meeting
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- Oak Wilt is a destructive and incurable vascular fungal disease
- All species of Oaks are susceptible with some species being somewhat tolerant
  - Red Oaks, Shumard, Spanish and Live Oaks are highly susceptible to the pathogen
- Trees with Oak Wilt generally do not survive



- How the fungus kills the tree
  - Infection: fungus enters tree through fresh wounds caused by pruning or storms. Sap feeding beetles carry spores from infected trees to healthy ones, especially in spring and early summer
  - Blockage: fungus grows within the tree's vascular system
  - Host Reaction: tree fights the invasion that plugs its own vessels choking off water supply
  - Disease leads to rapid wilting and death



- How it Spreads
  - Above Ground through Beetles: Diseased Red Oaks
     produce fungal mats in the spring attracting small
     Ceretocysstis fagacearum beetles. Fungus spores attach to
     the beetle. Beetles are then attracted to fresh cuts on all
     oak trees spreading the spores
  - Below Ground through Root Connections: Live Oaks grow in dense groups with interconnected roots



#### Prevention

- Avoid pruning oak trees from February to June 30, as this
  is the time beetles are most active and the fungal mats
  produce spores
- Disinfect cutting tools each time you prune a different tree, using an all-purpose household disinfectant
- Paint oak tree wounds immediately, regardless of the season with latex or tree wound paint
- Trench to cut the root systems between groups of trees to halt the underground spread
- Treat healthy oak trees with injectable fungicide every 18 months





#### OAK WILT MAP Leon Valley (Bluebird)





460

230



Diseased Area

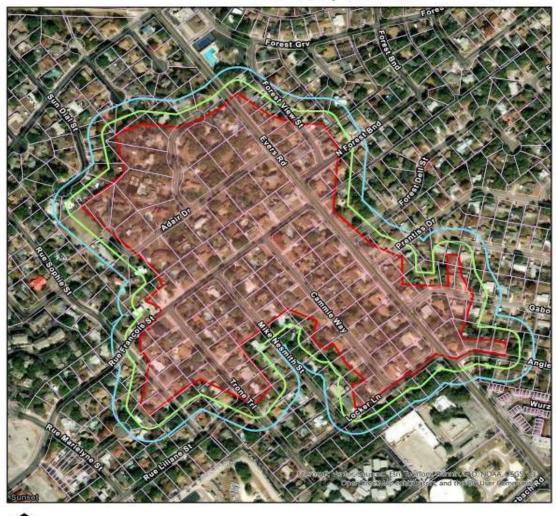
Immediate Treatment Zone (area b/w red & green line) Following Treatment Zone (area b/w green & blue line) County: Bexar Quad: Castle Hills Date: 10/28/2025 Forester: Elizabeth Nyawo





#### OAK WILT MAP Leon Valley (Evers Rd)







Diseased Area
Immediate Treatment Zone (area b/w red & green line)
Following Treatment Zone (area b/w green & blue line)

County: Bexar Quad: San Antonio West Date: 10/28/2025 Forester: Elizabeth Nyawo





- Efforts to Combat Oak Wilt
  - Forest View Trench: Trenched 1,030 ft. along Forest View
  - Oak Wilt Training: Hosted three Oak Wilt trainings on Oak
     Wilt & how to use the City's manual pump kit
  - Treated live oak trees at the Forest Oaks Pool w/fungicide
  - Developed the Oak Wilt Answers Brochure
  - Manual pump kit using the Macro System is available at Public Works for residents to borrow (fungicide not included)
  - 2x year brush pickup is held in February and September months when Oak Wilt is less active



### Recommendation

- Efforts to Combat Oak Wilt
  - Staff will work with Texas A&M Forest Service to schedule an Oak Wilt training in spring 2026
  - Continue to distribute the City's Oak Wilt brochure at tree adoption during Arbor Day and Earthwise Living Day events
  - Continue to loan out the manual pump kit and share training on how to use

