

Client:
Spire Reality Group LP
Austin Oaks Development
Austin, TX 78731

4/6/16



Austin Oaks Project: **Diameter inches of unprotected trees in undisturbed areas**

Bartlett Tree Experts was asked to provide an accurate estimate of total non-protected tree diameter inches in trees less than 8" in diameter located within two undisturbed areas (Area 1 & Area 3) located at the Austin Oaks Business Park. In order to provide such an estimate we determined that utilizing sample plots would provide the necessary accuracy.

Methodology:

In Area 1 we demarked 6 sample plots that best represented the tree population. 3 sample plots were used to estimate total diameter inches of non-invasive species. Each sample plot encompassed 100 sq.ft.. The 3 plots were averaged and extrapolated based on square footage of the area to arrive at the estimate. In order to provide a more accurate estimate, we demarked and calculated the non-wooded grassy areas within Area 1. We then subtracted that measurement from the total sq.ft. provided.

In Area 3 we utilized a combination of sample plots and physically measuring diameter depending on the terrain and accessibility. The portion of Area 3 located along Spicewood Springs Rd. had quite a steep escarpment that was simply too dangerous attempt physical measurements. In this portion of Area 3 we demarked 2 sample plots encompassing 100 sq.ft.. The total diameter inches non-invasive species were counted due to the limited choices of accessible area. In the remainder of Area 3 we simply measured and recorded each tree.

Area 1:

- Sample plot 1- 10'X10'; non-invasive
15.75" total diameter inches
Hackberry, Cedar Elm, Mexican buckeye
- Sample plot 2- 10'X10'; non-invasive
8.25" total diameter inches
Hackberry, Boxelder
- Sample plot 3- 10'X10'; non-invasive
20.00" total diameter inches
Hackberry, Pecan

Average diameter inches per 100 sq.ft. is 14.67"

Total sq.ft. is 41,720

Estimated total diameter inches is 6120.32"

Area 3:

-Physical count areas- noted on map
186.75" total diameter inches non-invasive
Live Oak, Cedar Elm, Hackberry, Gum bumelia, Yaupon, Juniper, Texas Persimmon

-Sample plot 7- 5'X20'
21.00" total diameter inches non-invasive
Cedar Elm, Hackberry, Ash, Yaupon

-Sample plot 8- 5'X20'
25.50" total diameter inches non-invasive
Cedar Elm, Hackberry, Ash, Yaupon

Average diameter inches per 100 sq.ft.:

Non-invasive is 23.25"

Total sample area sq.ft. is 3,213

Estimated total diameter inches in sample area:

Non-invasive is 747.02"

Physical count 186.75"

Total estimated diameter inches for Area 3:

Non-invasive is 933.77"