

CALCULATING TREE CANOPY COVER

Design, Environment
& Construction

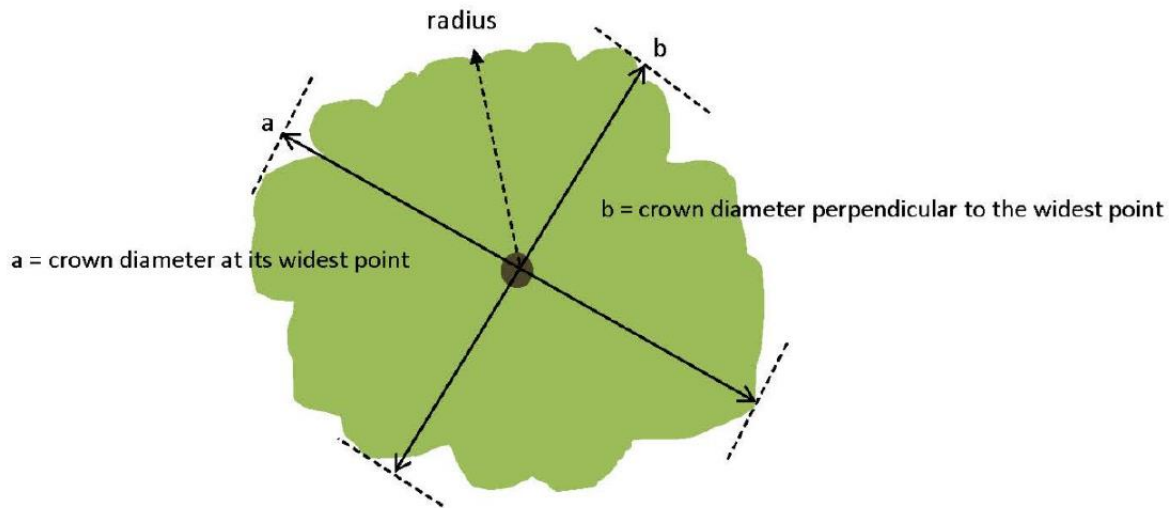
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Figure 1: Calculating Individual Tree Canopy Cover



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1. Measure the diameter of the crown at its widest point in feet (a).
2. Measure the diameter of the crown perpendicular to its widest point in feet (b).
3. Add those two diameters together, divide by 2 to get the average diameter.
4. Divide the average diameter by 2 to get the average radius.
5. Square the radius (r) and multiply by π (a constant of 3.14) to get the canopy cover in square feet.

For example, if (a) is 65 feet and (b) is 55 feet, then:

65 feet + 55 feet = 120 feet, 120 feet/2 = 60 foot average diameter

60 feet/2 = 30 foot average radius

30 feet x 30 feet x 3.14 = 2,826 square feet

You can also calculate the square foot area of a tree's crown using the city's GIS mapping tool, OneMap Decatur.

Workspace...

1. A = _____ ft
2. B = _____ ft
3. A _____ + B _____ = C _____
4. C _____ /2 = AR (Average Radius) _____
5. AR _____ x AR _____ x 3.14 = Canopy Cover _____ ft²