

# Reproduction Method Trunk Formula Technique

Client name \_\_\_\_\_ Date \_\_\_\_\_ Case # \_\_\_\_\_  
Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
Address \_\_\_\_\_

## Subject tree

Species \_\_\_\_\_

1. Trunk diameter\* (D) \_\_\_\_\_ @ \_\_\_\_\_
2. Cross-sectional area  $(\text{line } 1)^2 \times 0.7854$  \_\_\_\_\_ in<sup>2</sup>
3. Condition rating \_\_\_\_\_ %  
Health \_\_\_\_\_  
Structure \_\_\_\_\_  
Form \_\_\_\_\_
4. Functional limitations \_\_\_\_\_ %
5. External limitations \_\_\_\_\_ %

## Replacement tree

Species \_\_\_\_\_

6. Trunk diameter\* (D) \_\_\_\_\_ @ \_\_\_\_\_
7. Cross-sectional area  $(\text{line } 6)^2 \times 0.7854$  \_\_\_\_\_ in<sup>2</sup>
8. Replacement tree cost Source: \_\_\_\_\_ \$ \_\_\_\_\_

## Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_
10. Basic reproduction cost (line 2 × line 9) \$ \_\_\_\_\_
11. Depreciated reproduction cost<sup>^</sup> (line 10 × line 3 × line 4 × line 5) \$ \_\_\_\_\_

## Additional costs

- Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
Aftercare \_\_\_\_\_ \$ \_\_\_\_\_
12. Total additional costs \$ \_\_\_\_\_
  13. Total reproduction cost (line 11 + line 12) \$ \_\_\_\_\_
  14. Rounded \$ \_\_\_\_\_

\* Diameter and cross-sectional area may be replaced with plant area, volume, or height as appropriate.

<sup>^</sup> Apply depreciation if it is appropriate for the assignment.