

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 1  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Queen Palm

1. Trunk diameter\* (D) 13CT 17OA @ 10" DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 =                      n/a in<sup>2</sup>
3. Condition rating                      30 %  
 Health Poor  
 Structure Sparse crown, abnormal taper  
 Form
4. Functional limitations Poor soil, mediocre species 70 %
5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) 13CT feet height
7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 =                      in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 175

**Calculations** Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_
10. Basic functional replacement cost (line 2 × line 9) \$ \_\_\_\_\_
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ \_\_\_\_\_

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 175
13. Total functional replacement cost (line 11 + line 12) \$ 350
14. Rounded \$ 350

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 2  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Queen Palm

1. Trunk diameter\* (D) 13CT 180A @ 12" DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = n/a in<sup>2</sup>
3. Condition rating 40 %  
 Health \_\_\_\_\_  
 Structure Sparse crown  
 Form \_\_\_\_\_
4. Functional limitations Poor soil 70 %
5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) 13CT feet height
7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = \_\_\_\_\_ in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 175

**Calculations**

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_
10. Basic functional replacement cost (line 2 × line 9) \$ \_\_\_\_\_
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ \_\_\_\_\_

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 175
13. Total functional replacement cost (line 11 + line 12) \$ 350
14. Rounded \$ 350

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 3  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Slash Pine

1. Trunk diameter\* (D) 10" @ DBH

2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 79 in<sup>2</sup>

3. Condition rating 60 %

Health \_\_\_\_\_  
 Structure Topped off  
 Form \_\_\_\_\_

4. Functional limitations Poor soil 80 %

5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 3" cal

7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 7 in<sup>2</sup>

8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 250

**Calculations**

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 35.37

10. Basic functional replacement cost (line 2 × line 9) \$ 2,777.78

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ 1,333.33

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_

Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_

Aftercare \_\_\_\_\_ \$ \_\_\_\_\_

Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 250

13. Total functional replacement cost (line 11 + line 12) \$ 1,583.33

14. Rounded \$ 1,580

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 4

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Red Maple

- 1. Trunk diameter\* (D) 11 @ Lowest scaffold emergence
- 2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 95 in<sup>2</sup>
- 3. Condition rating 60 %  
 Health Small tip dieback  
 Structure Codominant stems  
 Form \_\_\_\_\_
- 4. Functional limitations poor soil, species issues 30 %
- 5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

- 6. Size (specify diameter or height) Diameter - 3" cal
- 7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 7 in<sup>2</sup>
- 8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 375

**Calculations**

- 9. Unit tree cost (line 8 / line 7 or RPAC) \$ 53.05
- 10. Basic functional replacement cost (line 2 × line 9) \$ 5,041.67
- 11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 907.50

**Additional costs**

- Cleanup \_\_\_\_\_ \$ \_\_\_\_\_
- Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_
- Aftercare \_\_\_\_\_ \$ \_\_\_\_\_
- Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_
- 12. Total additional costs \$ 375
- 13. Total functional replacement cost (line 11 + line 12) \$ 1,282.50
- 14. Rounded \$ 1,280

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 5  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Mahogany

1. Trunk diameter\* (D) 24 @ DBH

2. Cross-sectional area  $(\text{line } 1)^2 \times 0.7854 =$  452 in<sup>2</sup>

3. Condition rating 50 %

Health Significant trunk wound healing, surface root damage

Structure Codominant stems, weak connections, severely limited root zone

Form \_\_\_\_\_

4. Functional limitations poor soil, limited root zone 30 %

5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 4" cal

7. If diameter, cross-sectional area  $(\text{line } 6)^2 \times 0.7854 =$  13 in<sup>2</sup>

8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 484

**Calculations**

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 17,412

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 2,611.80

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_

Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_

Aftercare \_\_\_\_\_ \$ \_\_\_\_\_

Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 3,095.47

14. Rounded \_\_\_\_\_ \$ 3,100

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 7  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Live Oak

1. Trunk diameter\* (D) 10" @ DBH

2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 79 in<sup>2</sup>

3. Condition rating 60 %

Health \_\_\_\_\_  
 Structure Mediocreroot and scaffold structure  
 Form \_\_\_\_\_

4. Functional limitations poor soil 60 %

5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 3" cal

7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 7 in<sup>2</sup>

8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 475

**Calculations**

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 67.20

10. Basic functional replacement cost (line 2 × line 9) \$ 5,277.78

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ 1,900

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_

Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_

Aftercare \_\_\_\_\_ \$ \_\_\_\_\_

Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 475

13. Total functional replacement cost (line 11 + line 12) \$ 2,375

14. Rounded \$ 2,380

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 8  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Gumbo Limbo

1. Trunk diameter\* (D) 11" @ DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 95 in<sup>2</sup>
3. Condition rating 40 %  
 Health \_\_\_\_\_  
 Structure Codominant stems with weak connections, root lifting  
 Form \_\_\_\_\_
4. Functional limitations Poor soil 70 %
5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 3"
7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 7 in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 342

**Calculations**

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 48.34
10. Basic functional replacement cost (line 2 × line 9) \$ 4,593.52
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ 1,286.19

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 341.67
13. Total functional replacement cost (line 11 + line 12) \$ 1,627.85
14. Rounded \$ 1,630

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 10  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

### Subject tree

Species Mahogany

1. Trunk diameter\* (D) 14" @ DBH
2. Cross-sectional area  $(\text{line } 1)^2 \times 0.7854 =$  154 in<sup>2</sup>
3. Condition rating 50 %  
 Health \_\_\_\_\_  
 Structure Codominant stems, severely limited root zone  
 Form \_\_\_\_\_
4. Functional limitations Severely limited root zone, roots lifting pavement 30 %
5. External limitations none 100 %

### Functional replacement tree

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 4" cal
7. If diameter, cross-sectional area  $(\text{line } 6)^2 \times 0.7854 =$  13 in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 484

### Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49
10. Basic functional replacement cost (line 2 × line 9) \$ 5,924.92
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 888.74

### Additional costs

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 483.67
13. Total functional replacement cost (line 11 + line 12) \$ 1,372.40
14. Rounded \$ 1,380

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 11  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

### Subject tree

Species Mahogany

1. Trunk diameter\* (D) 14" @ DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 154 in<sup>2</sup>
3. Condition rating 50 %  
 Health Scaffold damage on two stems, surface root damage  
 Structure Codominant stems, limited root zone  
 Form \_\_\_\_\_
4. Functional limitations Limited root zone 30 %
5. External limitations none 100 %

### Functional replacement tree

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 4" cal
7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 13 in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 484

### Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49
10. Basic functional replacement cost (line 2 × line 9) \$ 5,924.92
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 888.74

### Additional costs

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 483.67
13. Total functional replacement cost (line 11 + line 12) \$ 1,372.40
14. Rounded \$ 1,380

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11/4/2020**

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 1/14/20 Case # 12  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Mahogany

1. Trunk diameter\* (D) 14" @ DBH

2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 154 in<sup>2</sup>

3. Condition rating 45 %  
 Health Loss of multiple scaffolds  
 Structure Poor canopy balance, significant voids, poor root structure  
 Form \_\_\_\_\_

4. Functional limitations poor soil, limited root zone 30 %

5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 4" cal

7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 13 in<sup>2</sup>

8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 484

**Calculations**

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 5,924.92

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ 799.86

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_

Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_

Aftercare \_\_\_\_\_ \$ \_\_\_\_\_

Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 1,283.53

14. Rounded 1,280

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 1/14/20 Case # 13  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Mahogany

1. Trunk diameter\* (D) 14" @ DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 154 in<sup>2</sup>
3. Condition rating 50 %  
 Health \_\_\_\_\_  
 Structure Codominance, poor root structure  
 Form \_\_\_\_\_
4. Functional limitations Roots lifting pavement, severely limited root zone 30 %
5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 4" cal
7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 13 in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 484

**Calculations**

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49
10. Basic functional replacement cost (line 2 × line 9) \$ 5,924.92
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ 888.74

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 483.67
13. Total functional replacement cost (line 11 + line 12) \$ 1,372.40
14. Rounded \$ 1,380

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 1/14/20 Case # 14  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

### Subject tree

Species Mahogany

1. Trunk diameter\* (D) 26" @ DBH

2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 531 in<sup>2</sup>

3. Condition rating 50 %  
 Health Bark inclusion  
 Structure Codominance, weak connections, poor root structure  
 Form \_\_\_\_\_

4. Functional limitations poor soil, severely limited root zone 30 %

5. External limitations none 100 %

### Functional replacement tree

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 4" cal

7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 13 in<sup>2</sup>

8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 484

### Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 20,434.92

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ 3,065.24

### Additional costs

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_

Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_

Aftercare \_\_\_\_\_ \$ \_\_\_\_\_

Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 3,548.90

14. Rounded \$ 3,550

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 15

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Red Maple

- 1. Trunk diameter\* (D) 8" @ DBH
- 2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 50 in<sup>2</sup>
- 3. Condition rating 25 %  
 Health Cavity and decay at failed scaffold  
 Structure Tip dieback  
 Form \_\_\_\_\_
- 4. Functional limitations Poor soil, species issues 30 %
- 5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

- 6. Size (specify diameter or height) Diameter - 3" cal
- 7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 7 in<sup>2</sup>
- 8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 375

**Calculations**

- 9. Unit tree cost (line 8 / line 7 or RPAC) \$ 53.05
- 10. Basic functional replacement cost (line 2 × line 9) \$ 2,666.67
- 11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 200

**Additional costs**

- Cleanup \_\_\_\_\_ \$ \_\_\_\_\_
- Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_
- Aftercare \_\_\_\_\_ \$ \_\_\_\_\_
- Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_
- 12. Total additional costs \$ 375
- 13. Total functional replacement cost (line 11 + line 12) \$ 575
- 14. Rounded \$ 580

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 16

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Mahogany

- 1. Trunk diameter\* (D) 30" @ DBH
- 2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = 707 in<sup>2</sup>
- 3. Condition rating 50 %  
 Health Sap seepage at multiple wound sites  
 Structure Severe codominance, weak connections, poor root structure  
 Form \_\_\_\_\_
- 4. Functional limitations Surface root damage, severely limited root zone 30 %
- 5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

- 6. Size (specify diameter or height) Diameter - 4"
- 7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 13 in<sup>2</sup>
- 8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 484

**Calculations**

- 9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49
- 10. Basic functional replacement cost (line 2 × line 9) \$ 27,206.25
- 11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 4,080.94

**Additional costs**

- Cleanup \_\_\_\_\_ \$ \_\_\_\_\_
- Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_
- Aftercare \_\_\_\_\_ \$ \_\_\_\_\_
- Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_
- 12. Total additional costs \$ 483.67
- 13. Total functional replacement cost (line 11 + line 12) \$ 4,564.60
- 14. Rounded \$ 4,560

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11/4/2020

# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 19

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Slash Pine

- 1. Trunk diameter\* (D) 4" @ DBH
- 2. Cross-sectional area  $(\text{line } 1)^2 \times 0.7854 =$  13 in<sup>2</sup>
- 3. Condition rating 50 %  
 Health \_\_\_\_\_  
 Structure Poor root structure, high center of gravity  
 Form \_\_\_\_\_
- 4. Functional limitations Poor soil 90 %
- 5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

- 6. Size (specify diameter or height) Diameter - 3" cal
- 7. If diameter, cross-sectional area  $(\text{line } 6)^2 \times 0.7854 =$  7 in<sup>2</sup>
- 8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 250

**Calculations**

- 9. Unit tree cost (line 8 / line 7 or RPAC) \$ 35.37
- 10. Basic functional replacement cost (line 2 × line 9) \$ 444.44
- 11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 200

**Additional costs**

- Cleanup \_\_\_\_\_ \$ \_\_\_\_\_
- Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_
- Aftercare \_\_\_\_\_ \$ \_\_\_\_\_
- Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_
- 12. Total additional costs \$ 250
- 13. Total functional replacement cost (line 11 + line 12) \$ 450
- 14. Rounded \$ 450

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 20  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Sabal Palm

1. Trunk diameter\* (D) 12CT 180A @ 12" DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = n/a in<sup>2</sup>
3. Condition rating 75 %  
 Health \_\_\_\_\_  
 Structure \_\_\_\_\_  
 Form \_\_\_\_\_
4. Functional limitations none 100 %
5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) 12CT feet height
7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = \_\_\_\_\_ in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 138

**Calculations** Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_
10. Basic functional replacement cost (line 2 × line 9) \$ \_\_\_\_\_
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ \_\_\_\_\_

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 138.33
13. Total functional replacement cost (line 11 + line 12) \$ 276.67
14. Rounded \$ 280

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 1/14/20 Case # 21  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Sabal Palm

1. Trunk diameter\* (D) 12CT 18OA @ 12" DBH

2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = n/a in<sup>2</sup>

3. Condition rating 60 %

Health \_\_\_\_\_  
 Structure Abnormal trunk taper  
 Form \_\_\_\_\_

4. Functional limitations none 100 %

5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

6. Size (specify diameter or height) 12CT feet height

7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = \_\_\_\_\_ in<sup>2</sup>

8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 138

**Calculations** Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_

10. Basic functional replacement cost (line 2 × line 9) \$ \_\_\_\_\_

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ \_\_\_\_\_

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_

Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_

Aftercare \_\_\_\_\_ \$ \_\_\_\_\_

Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 138.33

13. Total functional replacement cost (line 11 + line 12) \$ 276.67

14. Rounded \_\_\_\_\_ \$ \_\_\_\_\_

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 1/14/20 Case # 22  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Sabal Palm

1. Trunk diameter\* (D) 16CT 23OA @ 12" DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 =                      n/a in<sup>2</sup>
3. Condition rating 80 %  
 Health \_\_\_\_\_  
 Structure \_\_\_\_\_  
 Form \_\_\_\_\_
4. Functional limitations none 100 %
5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) 16CT feet height
7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 =                      in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 138

**Calculations** Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_
10. Basic functional replacement cost (line 2 × line 9) \$ \_\_\_\_\_
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
 (where depreciation is appropriate) \$ \_\_\_\_\_

**Additional costs**

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 138.33
13. Total functional replacement cost (line 11 + line 12) \$ 276.67
14. Rounded \$ 280

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 1/14/20 Case # 23  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

### Subject tree

Species Red Maple

1. Trunk diameter\* (D) 7" @ DBH
2. Cross-sectional area  $(\text{line } 1)^2 \times 0.7854 =$  38 in<sup>2</sup>
3. Condition rating 30 %  
 Health Trunk wound  
 Structure Poor structure, significant dieback  
 Form \_\_\_\_\_
4. Functional limitations poor soil, species issues 30 %
5. External limitations none 100 %

### Functional replacement tree

Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_

6. Size (specify diameter or height) Diameter - 3" cal
7. If diameter, cross-sectional area  $(\text{line } 6)^2 \times 0.7854 =$  7 in<sup>2</sup>
8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 375

### Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 53.05
10. Basic functional replacement cost (line 2 × line 9) \$ 2,041.67
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ 183.75

### Additional costs

Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_

12. Total additional costs \$ 375
13. Total functional replacement cost (line 11 + line 12) \$ 558.75
14. Rounded \$ 560

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 9/12/20 Case # 28

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Queen Palm

- 1. Trunk diameter\* (D) 23CT30OA @ 12" DBH
- 2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = n/a in<sup>2</sup>
- 3. Condition rating 75 %
  - Health \_\_\_\_\_
  - Structure \_\_\_\_\_
  - Form \_\_\_\_\_
- 4. Functional limitations poor soil 50 %
- 5. External limitations none 100 %

**Functional replacement tree**

Utility or benefit to be replaced \_\_\_\_\_

Replacement plan \_\_\_\_\_

Species \_\_\_\_\_

- 6. Size (specify diameter or height) 23CT feet height
- 7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = 7 in<sup>2</sup>
- 8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 175

**Calculations** Palms were not depreciated for this appraisal

- 9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_
- 10. Basic functional replacement cost (line 2 × line 9) \$ \_\_\_\_\_
- 11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5) (where depreciation is appropriate) \$ \_\_\_\_\_

**Additional costs**

- Cleanup \_\_\_\_\_ \$ \_\_\_\_\_
- Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_
- Aftercare \_\_\_\_\_ \$ \_\_\_\_\_
- Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_
- 12. Total additional costs \$ 175
- 13. Total functional replacement cost (line 11 + line 12) \$ 350
- 14. Rounded \$ 350

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# Functional Replacement Method Trunk Formula Technique

Client name \_\_\_\_\_ Date 1/14/20 Case # 29  
 Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
 Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

**Subject tree**

Species Queen Palm

1. Trunk diameter\* (D) 22CT 28OA @ 10" DBH
2. Cross-sectional area (line 1)<sup>2</sup> × 0.7854 = n/a in<sup>2</sup>
3. Condition rating 65 %  
 Health \_\_\_\_\_  
 Structure \_\_\_\_\_  
 Form \_\_\_\_\_
4. Functional limitations poor soil 50 %
5. External limitations none 100 %

**Functional replacement tree**

- Utility or benefit to be replaced \_\_\_\_\_  
 Replacement plan \_\_\_\_\_  
 Species \_\_\_\_\_
6. Size (specify diameter or height) 22CT feet height
  7. If diameter, cross-sectional area (line 6)<sup>2</sup> × 0.7854 = \_\_\_\_\_ in<sup>2</sup>
  8. Functional replacement tree cost Source: \_\_\_\_\_ \$ 175

**Calculations** Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ \_\_\_\_\_
10. Basic functional replacement cost (line 2 × line 9) \$ \_\_\_\_\_
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)  
(where depreciation is appropriate) \$ \_\_\_\_\_

**Additional costs**

- Cleanup \_\_\_\_\_ \$ \_\_\_\_\_  
 Replacement tree installation \_\_\_\_\_ \$ \_\_\_\_\_  
 Aftercare \_\_\_\_\_ \$ \_\_\_\_\_  
 Hardscape (specify) \_\_\_\_\_ \$ \_\_\_\_\_
12. Total additional costs \$ 175
  13. Total functional replacement cost (line 11 + line 12) \$ 350
  14. Rounded \_\_\_\_\_ \$ 350

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