



**OUTDOOR ADVERTISING CONTROL
TREE PRUNING FORMULA SHEET**

Radius – The distance from mid trunk to tree drip line

Height – Measured from lowest tree branch to top of crown (excludes suckers)

$Volume = (Radius)^2 \times (Height) \times 3.142$

Tree Trimming Formula (all #'s are in ft)	
Existing Tree	After Trimming
Existing Radius _____	After Radius _____
Existing Height _____	After Height _____
<i>Existing Volume</i> _____	<i>After Volume</i> _____
$Volume = (Radius)^2 \times (Height) \times 3.142$	
$\% \text{ Removal} = \frac{\text{Existing Volume} - \text{After Volume}}{\text{Existing Volume}} \times 100$	
% Removal	← Cannot Exceed 33%

Example

Tree Trimming Formula (all #'s are in ft)	
Existing Tree	After Trimming
Existing Radius 5.0	After Radius 4.6
Existing Height 20.0	After Height 16.0
<i>Existing Volume</i> 1571	<i>After Volume</i> 1064
$Volume = (Radius)^2 \times (Height) \times 3.142$	
$\% \text{ Removal} = \frac{\text{Existing Volume} - \text{After Volume}}{\text{Existing Volume}} \times 100$	
% Removal 32.2	← Cannot Exceed 33%

Existing Volume= 5x5 X 20 X 3.142 = 1571



(Radius)²



After Volume= 4.6x4.6 X 16 X 3.142 = 1064

% Removal = $\frac{1571-1064}{1571} \times 100 = 32.2\%$