

# TREE RETENTION WORKSHEET

**Planning Division**

1055 South Grady Way-Renton, WA 98057  
Phone: 425-430-7200 | [www.rentonwa.gov](http://www.rentonwa.gov)

1. Total number of trees over 6" diameter<sup>1</sup>, or alder or cottonwood trees at least 8" in diameter on project site \_\_\_\_\_ trees
2. **Deductions:** Certain trees are excluded from the retention calculation:
  - Trees that are dangerous<sup>2</sup> \_\_\_\_\_ trees
  - Trees in proposed public streets \_\_\_\_\_ trees
  - Trees in proposed private access easements/tracts \_\_\_\_\_ trees
  - Trees in critical areas<sup>3</sup> and buffers \_\_\_\_\_ treesTotal number of **excluded trees:** \_\_\_\_\_ trees
3. Subtract **line 2** from **line 1**: \_\_\_\_\_ trees
4. Next, to determine the number of trees that must be **retained**<sup>4</sup>, multiply **line 3** by:
  - 0.3 in zones RC, R-1, R-4, R-6 or R-8
  - 0.2 in all other residential zones
  - 0.1 in all commercial and industrial zones\_\_\_\_\_ trees
5. List the number of 6" in diameter, or alder or cottonwood trees over 8" in diameter that you are proposing<sup>5</sup> to **retain**<sup>4</sup>: \_\_\_\_\_ trees
6. Subtract **line 5** from **line 4** for **trees to be replaced**:  
(if line 6 is zero or less, stop here. No replacement trees are required) \_\_\_\_\_ trees
7. Multiply **line 6** by **12"** for number of **required replacement inches**: \_\_\_\_\_ inches
8. Proposed size of trees to meet **additional planting** requirement:  
**(Minimum 2" caliper trees required for replacement, otherwise enter 0)** \_\_\_\_\_ inches per tree
9. Divide **line 7** by **line 8** for number of **replacement trees**<sup>6</sup>:  
(If remainder is .5 or greater, round up to the next whole number) \_\_\_\_\_ trees

<sup>1</sup> Measured at 4.5' above grade.

<sup>2</sup> A tree certified, in a written report, as dead, terminally diseased, damaged, or otherwise dangerous to persons or property by a licensed landscape architect, or certified arborist, and approved by the City.

<sup>3</sup> Critical areas, such as wetlands, streams, floodplains and protected slopes, are defined in RMC 4-3-050.

<sup>4</sup> Count only those trees to be retained outside of critical areas and buffers.

<sup>5</sup> The City may require modification of the tree retention plan to ensure retention of the maximum number of trees per RMC 4-4-130H7a.

<sup>6</sup> When the required number of protected trees cannot be retained, replacement trees, with at least a two-inch (2") caliper or an evergreen at least six feet (6') tall, shall be planted. See RMC 4-4-130.H.1.e.(ii) for prohibited types of replacement trees.

## Minimum Tree Density

A minimum tree density shall be maintained on each **residentially zoned** lot (exempting single-family dwellings in R-10 and R-14). The tree density may consist of existing trees, replacement trees, or a combination.

**Detached single-family development<sup>7</sup>:** Two (2) significant trees<sup>8</sup> for every five thousand (5,000) sq. ft. of lot area. *For example, a lot with 9,600 square feet and a detached single-family house is required to have four (4) significant trees or their equivalent in caliper inches (one or more trees with a combined diameter of 24”). This is determined with the following formula:*

$$\left( \frac{\text{Lot Area}}{5,000 \text{ sq.ft.}} \right) \times 2 = \text{Minimum Number of Trees}$$

**Multi-family development (attached dwellings):** Four (4) significant trees<sup>8</sup> for every five thousand (5,000) sq. ft. of lot area.

$$\left( \frac{\text{Lot Area}}{5,000 \text{ sq.ft.}} \right) \times 4 = \text{Minimum Number of Trees}$$

Example Tree Density Table:

Lot	Lot size	Min significant trees required	New Trees	Retained Trees	Compliant
1	5,000	2	2 @ 2" caliper	0	Yes
2	10,000	4	0	1 tree (24 caliper inches)	Yes
3	15,000	6	2 @ 2" caliper	1 Maple – 15 caliper inches 1 Fir – 9 caliper inches.	Yes

<sup>7</sup> Lots developed with detached dwellings in the R-10 and R-14 zoned are exempt from maintaining a minimum number of significant trees onsite, however they are not exempt from the annual tree removal limits.

<sup>8</sup> Or the gross equivalent of caliper inches provided by one (1) or more trees.