

# Street Trees

- Any area outside of the tax lot, typically between the curb and sidewalk
- Responsibility for the right-of-way falls to the adjacent property owner
- A permit is required to plant, prune or remove a street tree



Larry Maginnis - Urban Forestry

# Maintenance Need by Life Stages

- Sapling
- Newly Established
- Juvenile
- Mature
- Declining



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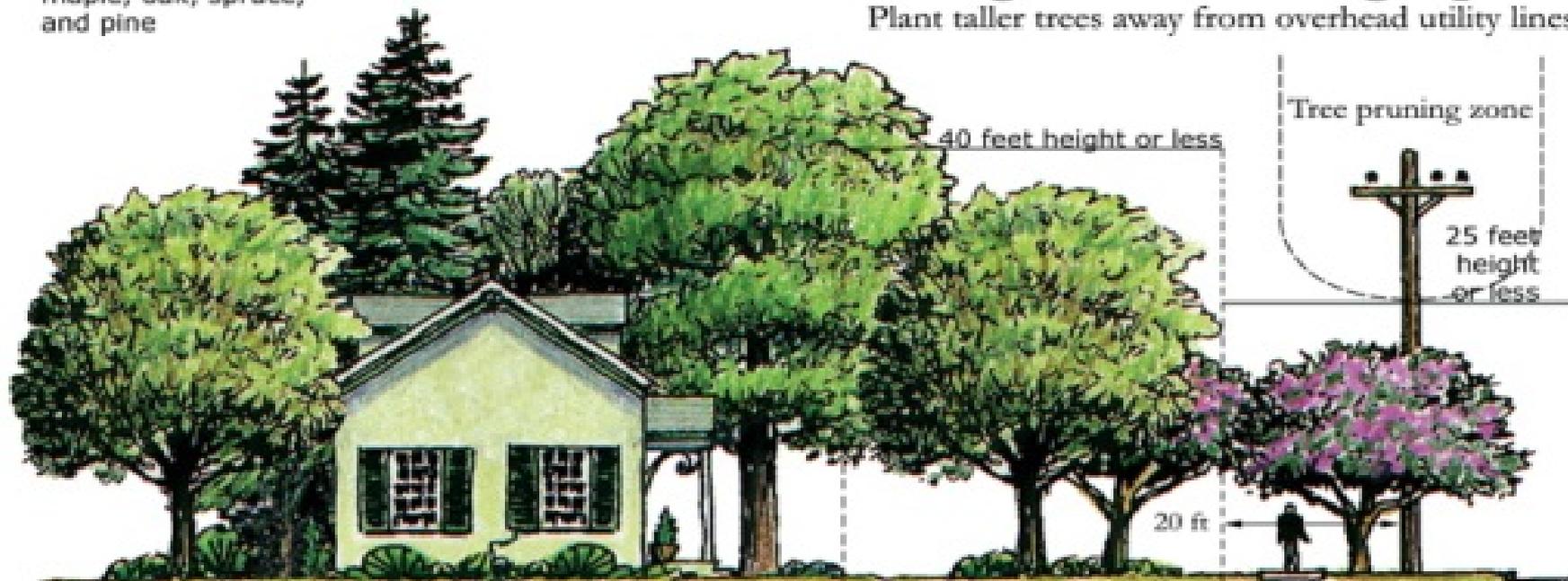


# Right Tree, Right Place

**Tall trees, such as:**  
maple, oak, spruce,  
and pine

## Plant the right tree in the right place

Plant taller trees away from overhead utility lines



**The National  
Arbor Day Foundation®**  
[arborday.org](http://arborday.org)

**Medium trees, such as:**  
washington hawthorn  
and goldenraintree

**Small trees, such as:**  
redbud, dogwood,  
and crabapple

# Recommended planting guides

<http://www.portlandoregon.gov/parks/49305>



**Parks & Recreation**

Healthy Parks, Healthy Portland

PHONE: 503-823-PLAY (7529)

FAX: 503-823-6007

1120 SW Fifth Ave., Suite 1302, Portland, OR 97204

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3 to 3.5 foot Planting Strip - with or without overhead lines

2.5 to 3 foot Planting Strip - with or without overhead lines

4 to 5.5 foot Planting Strip - with overhead lines

6 to 8 foot Planting Strip - with overhead lines

4 to 5.5 foot Planting Strip - without overhead lines

6 to 8 foot Planting Strip - without overhead lines

8.5 foot & wider Planting Strip - with overhead lines

8.5 foot & wider Planting Strip - without overhead lines

## 3 to 3.5 foot Planting Strip - with or without overhead lines

KEY: 
  Showy flower 
  Fall color 
  Evergreen 
  Textured bark 
  Fruit/nuts for wildlife

Feature	Common Name	Scientific Name	Mature Height	Canopy Spread
	<a href="#">Black Hawthorn</a>	<i>Crataegus douglasii</i>	45'	25'
	<a href="#">Cascara</a>	<i>Rhamnus purshiana</i>	30'	25'
	<a href="#">Chinese Pistache</a>	<i>Pistachia chinensis</i>	25'	25'
	<a href="#">Crape Myrtle</a>	<i>Lagerstroemia cultivars</i>	20'	20'
	<a href="#">Flowering Ash</a>	<i>Fraxinus ornus</i>	30'	15'

# Recommended planting guides

friendsoftrees.org/plant-it-programs/browse-trees

## *Pick a Tree. Not Just Any Tree.*

**DIFFERENT TREES THRIVE UNDER DIFFERENT CONDITIONS.  
SEARCH OUR INVENTORY WITH YOUR SPECIFIC PLOT IN MIND.**

### ► STREET TREES

The planting strip between sidewalk and street, is where these trees live, requiring a permit from the city. Please note: Your permit only allows you to plant select trees. Please choose an eligible tree from the list below.

Accolade Elm



More Info

ADD TO CART

American Yellowwood



More Info

ADD TO CART

Amur Maackia



More Info

ADD TO CART

Autumn Gold Ginkgo



More Info

ADD TO CART

Bald Cypress



More Info

ADD TO CART

CHECKOUT

► [CLICK HERE FOR MORE STREET TREES](#)

Poor quality



Good quality



Best quality

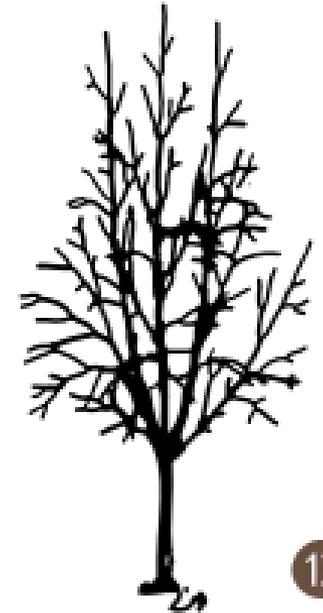


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Good quality



Poor quality



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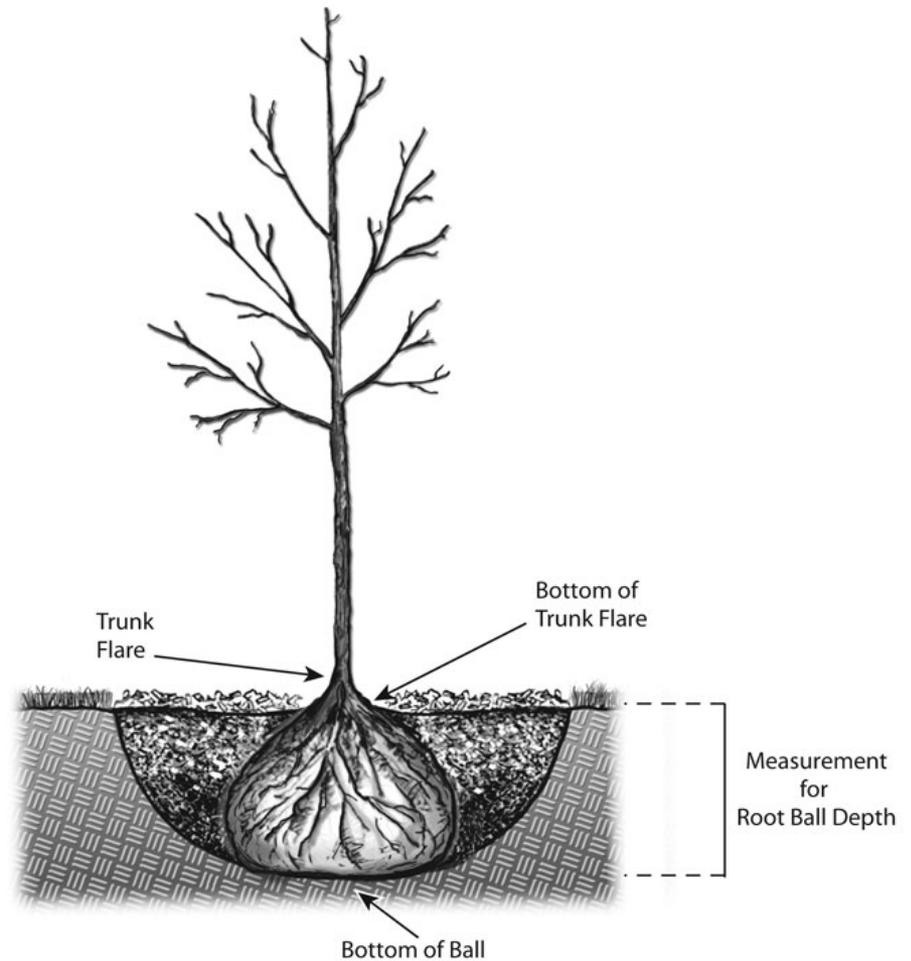
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Edward F. Gilman – University of Florida

# Proper Planting



Friends of Trees



ANSI A300-Part6-Fig.-64

# Mulching



Vs.



# Watering



# Ideas for Tree Groups

- Planting outreach: plant, plant, plant
- Selecting/promoting diverse species
- Mulch delivery
- Watering Co-op
- Young tree monitoring and intervention
- ??????????



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# Why do we do train young trees?

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- Improve Structural Integrity
  - Increase Tree Longevity
  - Reduce Future Maintenance Cost
  - Enhance Efficiency
  - Manipulate Based on Location and Use
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# Young tree pruning:

- **Thin/ reduce - Promote a well established central leader**
- Thin - Provide adequate spacing and distribution of scaffold branches.
- Raise – Begin lifting the lower canopy
- Reduce – In some cases shorten temporary branches below lowest permanent branch







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# Ideas for Tree Groups

- Pruning Workshop!
- Replacement of lost causes
- Property owner education: tree care
- ??????????



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# Juvenile tree pruning

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- Clean - Remove dead dying or diseased branches
  - Thin - maintain central leader and branch spacing
  - **Raise- Establish Scaffold Branches**
  - Reduce - Prune for infrastructure
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# Minimum Clearance

## Pruning Guide



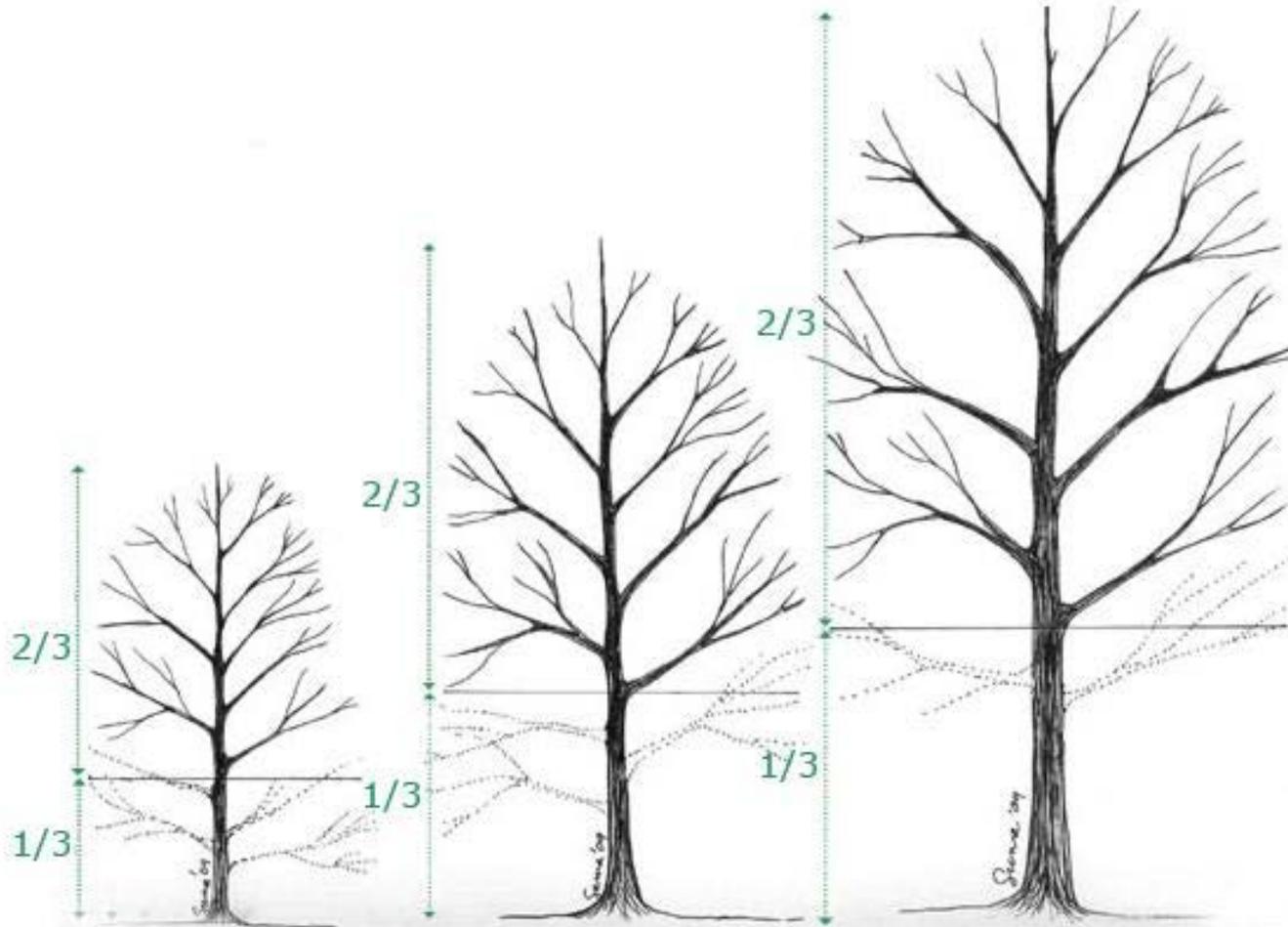
11 Feet  
from limbs  
to street



7.5 Feet  
from limbs  
to sidewalk



# Raise in Stages



# Ideas for Tree Groups

- Pruning Workshop!
- Property owner education
- ????????????



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# Mature Tree Pruning

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- Clean: Remove dead dying and diseased limbs
  - Thin: Selective pruning to reduce density of live branches
  - Raise: Selective pruning to provide vertical clearance.
  - Reduce: Clear infrastructure, weight reduction
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Before thinning



After inappropriate thinning



After appropriate thinning





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# Infrastructure Conflicts







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# Major Tree Pests of Mature Trees

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- Dutch Elm Disease
  - Bronze Birch Borer
  - Thousand Canker Disease
  - Phytophthora
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# Ideas for Tree Groups

- Pruning Class/Walk and demonstration
- Property owner education: choosing an arborist, maintenance needs
- Sidewalk alteration projects
- Bugs and Crud Class/Walk and monitoring
- Promoting benefits of mature trees



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# Risk Management

Risk Categorization																				
Condition number	Tree part	Conditions of concern	Part size	Fall distance	Target number	Target protection	Likelihood								Consequences				Risk rating of part (from Matrix 2)	
							Failure				Impact				Failure & Impact (from Matrix 1)					
							Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely		Negligible
1																				
2																				
3																				
4																				

Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impacting Target			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

# Ideas for Tree Groups

- ID and outreach
- Mature tree walks
- Heritage Tree nominations
- Celebration of mature trees and their history
- ????????????

