Objectives:

♦ Selecting the Right Tree for the Right Place
♦ Planting Correctly
♦ Pruning Correctly

Questions?
Call Cowlitz County PUD
(360) 501-9518
A Meter: accessible, O/H secondary service wires are customer responsibility
B 12.5 KV Distribution Line: small trees to side or underneath
C 240 KV Transmission Line: no trees preferred; small trees to side; pastures and gardens underneath
D 120 KV Transmission Line: no trees preferred; small trees to side; pastures and gardens underneath
E Underground Vault, Junction Box, and Transformer: accessible
Introduction

All trees are right in their natural environments. Trees are often wronged, however, by the selection of trees and their planting locations in urban and rural situations.

The Right Tree Book is a guide to help choose the best tree for small spaces, and for under or near power lines. This book also provides information on trees. Information presented will aid in selection of species with desired visual effect and adaptability to a site’s soil, light, water and other environmental conditions. Although this book does not specifically address street trees, some small trees are highlighted in The Right Tree Book as appropriate for the special requirements of streetside planting.

Important Information:

Many property owners have planted inappropriate trees under or near power lines. As a result, interfering tree limbs and falling trees or branches are the No. 1 cause of power outages in Cowlitz County. Trees and other plants are also electrical conductors. A tree touching power lines or a transformer can conduct electricity to another electrical conductor: the human body. Climbing trees and building treehouses, decks and other structures near power lines are dangerous activities and should be avoided.

For the public’s safety and continuity of service, utility companies are required to maintain minimum clearances around all utility lines. Complying with required clearances and allowing for tree growth means trimming trees back at least 10 feet from electrical distribution lines and 16 1/2 feet from transmission lines. Trees are usually removed from under or near transmission tower and lines.

Trimming trees is an inefficient solution for maintaining safe clearances to power lines. Tree trimming is expensive and temporary. Problem trees must be retrimmed every three years. In addition, corrective tree pruning is often severe, ruining the appearance and sometimes the long-term health of trees.

The best solution is selection of the right trees to plant under or near overhead lines. Safe clearances can be maintained under or near most distribution lines by planting trees with a maximum 25 foot height. Under high-voltage transmission lines, no trees should be planted.

A Special Note:

Vines, shrubs and ground covers also affect utilities. Vines are strictly discouraged on power poles because they interfere with maintenance and cause a variety of hazards, from outages to grounding of electrical currents. Shrubs, by definition, are of relatively low height and are generally compatible with overhead power lines. A few commonly planted shrubs, however, quickly reach heights exceeding 25-30 feet and cause interference problems for utilities. Problem shrubs that should be avoided under or near overhead lines include:

- English laurel (Prunus laurocerasus)
- Hazelnut (Corylus cornuta)
- Leyland cypress (Cupressocyparis Leylandii)
- Pyramidal arborvitae (Thuja occidentalis ‘Pyramidalis’).

Plants growing into underground vaults can cause electrical shorts and outages. A chief culprit is the commonly planted English ivy (Hedera helix). Simple solutions include planting less-aggressive groundcovers near underground vaults, and keeping ground covers pruned back from vault lids.

And Remember:

Vaults, Junction Boxes, Transformers, and meters must be physically and visually accessible to utility crews and meter readers. Avoid dense, tall or thorny shrubs that obstruct or obscure addresses, as well as delicate flowerbed plantings that may be harmed by access.
With The Right Tree Book, Cowlitz Co. PUD responds to the growing need for information on trees.

The “life cycle” story of the trees begins with wanting and selecting the right trees. The cycle continues through planting, long-term maintenance and pruning. The story’s end is healthy trees and happy homeowners, cities, counties and utility companies.

Pure fiction. Or is it?

Cowlitz Co. PUD hopes that the information imparted within will help make the story come true for you.

Recommended trees for planting under or around power lines are listed in The Right Tree List of Small Trees. Only trees that stay below the 25-30 foot maximum height over a 25-40-year period are described.
Meet Larry and Lucy; baby Carrie makes three. They’re in a new home and they want to plant trees.
How to Start Thinking About the Right Tree 🌳 Planting the right tree starts with thinking and planning. To legally, safely, and properly plant trees:

1. **LOOK** at desirable planting locations, above and below ground.
   - To judge limits on tree size, look up and around. What are the restrictions?
     Cowlitz Co. PUD requires the following safe clearances underneath and to sides of overhead power lines: 10-foot clearances from 12,500-volt distribution lines; and 16.5 foot clearances from 120,000-volt and 240,000-volt transmission lines.
     Trees are discouraged under or near transmission lines and towers.
     Cowlitz Co. PUD encourages questions prior to planting. For information regarding electrical utilities in your area, call Cowlitz Co.PUD at (360) 501-9518.
   - Call before digging to see what’s in the ground at **811**

   Underground utilities, particularly within street planting strips and utility easements, may include natural gas, sewer, water, and underground electrical, cable TV and telephone lines.

2. **APPLY** for a permit at county or town.
   Cities and counties may require permits for tree planting, pruning or removal, particularly in street rights-of-way. Call your local city or county for permit requirements. Phone numbers are listed in the Tree Information and Permit Directory at the end of *The Right Tree Book*.

3. **LEARN** about trees; sources of information and references abound.
   Visit public libraries or bookstores to find reference books on trees. Suggested references are listed in the bibliography at the end of *The Right Tree Book*.
   The Miller Library at the University of Washington’s Center for Urban Horticulture is the most complete horticulture reference library in the Northwest. The Miller Library is located at 3501 NE 41st Street, Seattle. Its hours are 9 a.m.-5 p.m., Monday-Friday, or call (206) 543-0415.

   Visit local nurseries and garden centers to see what’s available. Ask questions about trees.

   Other sources of information include:
That’s Lucy out front, dreaming of trees by her front door and along the street. She wants trees with flowers, and some shade to beat summer heat. But lurking above her is a tangle of electric, cable TV and telephone lines. Sadly, she wonders, “Will any tree fit under those overhead wires?”

Meanwhile, Larry’s in back thinking that a few screening trees between backyards would make both yards more private. He talks with Mildred and Zack, the neighbors living uphill and directly behind. They all agree that a few trees with evergreen leaves would be fine. But Mildred and Zack have a beautiful view that big trees will hide. And halfway between homes are more electrical lines.

The two families realize it takes careful planning to plant the right tree. To check out choices of available trees, they head to a nearby nursery.
Checklist for Selecting the Right Tree

To choose the right tree, you must know your desires in tree type, shape and role. Is flower, fruit, bark, or leaf interest your goal? Observing your yard for sun, wind, and water conditions reveals what environmental tolerances your trees need. Check your soil. What is it like and what’s its fertility? Until you consider all of your needs and site demands, it’s tough to choose appropriate trees.

The following checklist will help guide your selection process.

### TYPES OF TREES
- □ broadleaf evergreen, like a holly
- □ deciduous, like a maple
- □ needle-leafed evergreen, like a fir

### TREE FUNCTIONS
- □ for accent
- □ for screening
- □ for shade

### TREE SHAPES
- □ cone-shaped or pyramidal
- □ horizontal or wide-spreading
- □ round
- □ upright or narrow
- □ vase-shaped
- □ weeping

### INTERESTING CHARACTERISTICS
- □ flowering
- □ fruiting
- □ interesting leaf color or texture
- □ interesting bark color or texture

Tolerances to environment or site include heat, cold, drought, wet or dry soils, pollution, sun, shade, wind, and salt spray, to name a few. What conditions does your site have?

### SUN
- □ sun
- □ shade
- □ partial shade

### WIND
- □ windy
- □ sheltered

### SOIL
- □ sandy
- □ clay
- □ something in between
- □ usually moist
- □ usually dry
- □ poor draining
- □ fast draining

### POLLUTION
- □ near busy street
- □ near other pollution sources

### SPECIAL ENVIRONMENT
- □ street tree
- □ near saltwater
- □ other special conditions
Selecting the Right Tree

At the nursery, Lucy, Larry, Carrie, Mildred and Zack see so many trees, they have anxiety attacks. There are round ones and skinny ones, short ones and tall, weeping ones, spreading ones, some spring-flowering, and others bright colored in fall. The choices are vast. So overwhelming, in fact, they realize how much information they lack.

They see a salesperson to ask for advice, who asks in return, “What would you like?” And that makes them think twice. They prefer trees for screening and flowers, explaining that all must fit under utility wires. But what else to consider, they haven’t a clue.

The nursery person gives the families a Right Tree Book and says, “Here is a tool to use in selecting trees to meet your needs.” This handy book helps guide their choice of the best and right trees.
Steps for Planting the Right Tree

Planting steps listed below reflect current horticultural information on proper planting techniques.

1. Plan locations for trees before digging holes in the ground. Remember to call 811 before you dig.

2. Dig hole to same depth as root ball or container, and twice as big around.

   Current recommendations suggest digging planting holes to same or no more than two inches shallower depth as that of root ball or container. This practice prevents trees from settling to lower level than originally grown. Planting hole width should be twice that of root ball or container.

3. Rough up sides and bottom of pit. If pit walls are smooth, roots cannot penetrate and trees grow stunted or topple in winds.

4. Remove trees from containers, including root balls wrapped in burlap.

5. Lower tree in hole with care, handling only by earth ball. Roots can be damaged by pulling on a tree by its trunk.

6. Prune dead or broken roots and slice through those roots circling the ball.

7. Remove all wire, twine, and plastic wrap. Fold natural burlap cloth back from trunk.

8. Keep tree at same level where it was originally growing. For best tree growth and function, follow this instruction.

9. Backfill hole with uncompacted soil left in natural state. Topsoil amendments, such as peat moss, sawdust, sand, manure, or special topsoil mixes, are not recommended.

10. When hole is half-full, flood it with water and let it soak.

11. Finish filling pit, without compacting backfill earth. Create shallow saucer of soil around trunk, to hold water and quench tree’s thirst.

12. A watering tube may be installed as an option, allowing for deep soaking in dry summer months.

13. Fertilizer is unnecessary for the first year and optional after that. Fertilize tree with balanced mix of N-P-K. Apply as directed on top of ground, and water will carry it down.

   N=Nitrogen, P=Phosphorus, and K=Potassium are essential basic ingredients of all commercial fertilizers. A balanced mix will have equal proportions of each or be slightly higher in nitrogen.

14. Mulch around tree with two or three inches of sawdust, leafmold or bark, but do not pile against trunk to prevent crown or root rot.

15. Stake to support tree only if needed, and for one year at most. Place stake upwind of trunk. Secure at tree’s lower third with a tie that protects bark.

   Tie may be commercially available tree tie material or heavy-gauged galvanized wire in rubber hose to protect trunk.

16. Wrapping tree trunks is not needed, but does stop freeze-thaw damage to young, thin-barked trees on cold, sunny days.

   Tree-wrapping material may be commercial plastic wrap product or burlap/cotton cloth in 4-6-inch wide strips.

17. Avoid trimming at planting except for dead or broken branches.
Lucy, Larry, Mildred and Zack buy nine trees. One is a pine; three are flowering; and five are broadleaf evergreens for a screen. Some come in containers, and some are balled in burlap. Now, how to plant all their right trees without a mishap?

They follow recommended steps for planting. Completing all steps carefully insures that they’ll have healthy trees.

- **a** stake (optional)
- **b** watering tube (optional)
- **c** soil around base of tree shaped into saucer
- **d** depth of hole same as depth of root ball
- **e** width of hole two times width of root ball
- **f** uncompacted native soil
Ingredients for Maintaining a Healthy Tree

Water and soil fertility, adjusted to a tree’s specific requirements, are the basic ingredients for tree growth and health. Tree care also includes pest and disease control. But above all, good tree health begins with proper tree choice and planting location.

WATER
Deep soaking for first 3-5 years, or until tree is well established, is best. During drought, mature trees may need water as well. Trees have different water needs. Some trees are more drought-tolerant than others. Judge your trees’ needs individually and apply water accordingly.

SOIL
Soils differ in natural fertility. Clay soil is often richer in nutrition than sand. You may top dress with a balanced formula fertilizer in fall or early winter. This practice insures slow release of nutrients as rainfall soaks fertilizer into the ground. Avoid Weed and Feed fertilizer which can kill young trees. When applying fertilizers, consult package label to find recommended amount for size of tree. Nitrogen is the major limiting nutrient. A top dressing of compost, manure, blood meal or other organic fertilizer is recommended.

OTHER INGREDIENTS
In addition to water and earth, watch out for signs of disease or pests. Chemical sprays are poisons to apply only with caution. Pests can also be stopped with effective organic solutions or biological controls.

Pruning Tips

Through proper and restrained pruning, trees attain their true height and form. Prune only weak, dead, broken or conflicting branches. This advice is now the norm.

With sharp saw or blade, trim limbs at their start, just above branch collar (see illustration on page 13).

FIRST CUT is on underside of the branch to prevent tearing.

SECOND CUT is from above to remove bulk of weight.

THIRD CUT is clean slice just above thickened collar of bark. After cutting is done, don’t dress or paint the wound. Painting is only cosmetic and may be detrimental to the health of trees. Late winter or spring are good times to prune.

Desires for special shaping or hedging may exist. Only use trees that can withstand intensive pruning techniques such as hedging, topiary or pollarding, and seek professional advice.
The families grow older and are very pleased that their plantings are healthy, maturing trees. Through trial and error, they’ve acquired some skill in nurturing trees. They have learned that basic ingredients of water and soil fertility are key in maintaining a long-lived and flourishing tree.

But the families wonder if their trees need trimming. They’ve spotted dead growth and few broken limbs. Since the foursome bought trees for their untouched outline, they follow current recommendations to prune only weak, dead, broken or conflicting branches. It means much less pruning and lots more spare time.
# List of Small Trees

<table>
<thead>
<tr>
<th>Shape</th>
<th>Interest</th>
<th>Function</th>
<th>S = Shade</th>
<th>Fr = Fruit</th>
<th>*= Not suitable as street trees</th>
</tr>
</thead>
<tbody>
<tr>
<td>C = Cone</td>
<td>B = Bark</td>
<td>A = Accent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H = Horizontal</td>
<td>F = Flower</td>
<td>R = Round</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F = Foliage</td>
<td>U = Upright</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Deciduous Trees

- **Vine Maple** .......... A V Fo<br> *Acer circinatum*
- **Amur Maple** .......... S V Fo<br> *Acer ginnala*
- **Paperbark Maple** .......... S V Fo<br> *Acer griseum*
- **Japanese Maple** .......... S V Fo<br> *Acer palmatum*
- **Globe Norway Maple** .......... S R Fo<br> *Acer platanoides ‘Globosum’*
- **Serviceberry** .......... A V F<br> *Amelanchier x grandiflora*
- **Eastern Redbud** .......... A R F<br> *Cercis canadensis*
- **White Fringetree** .......... A R F<br> *Chionanthus retusus*
- **Kousa Dogwood** .......... A V F<br> *Cornus kousa*
- **Cornelian Cherry** .......... A R F<br> *Cornus mas*
- **Smoke Tree** .......... A R Fo<br> *Cotinus obovatus*
- **Washington Hawthorn** .......... A H F<br> *Crataegus phaenopyrum*
- **Leprecaun Ash** .......... S R Fo<br> *Fraxinus pennsylvanica ‘Johnson’*
- **Golden Ash** .......... S R Fo<br> *Fraxinus oxycarpa ‘Golden Desert’*
- **Witchhazel** .......... A V F<br> *Hamamelis x intermedia*
- **Hardy Hibiscus** .......... A V F<br> *Hibiscus syriacus*

## Broadleaf Evergreens

- **Strawberry Tree** .......... Sc* R Fo<br> *Arbutus unedo*
- **California Lilac** .......... Sc* R F<br> *Ceanothus ‘Ray Hartman’*
- **Glossy Privet** .......... Sc R Fo<br> *Ligustrum lucidum*
- **Evergreen Magnolia** .......... Sc R F<br> *Magnolia grandiflora ‘Little Gem’*
- **Pacific wax myrtle** .......... Sc* R Fo<br> *Myrica californica*
- **Fraser Photinia** .......... Sc* R Fo<br> *Photinia x fraseri*
- **Rhododendron** .......... Sc* R F<br> *Rhododendron sp*
- **Leatherleaf viburnum** .......... Sc* R Fo<br> *Viburnum rhytidophyllum*

## Needle-leaved Evergreens

- **Dwarf Hinoki Cypress** .......... Sc* C Fo<br> *Chamaecyparis obtusa*
- **Japanese Cedar** .......... Sc* C Fo<br> *Cryptomeria japonica ‘Elegans’*
- **Bristlecone Pine** .......... Sc* C Fo<br> *Pinus aristata*
- **Lacebark Pine** .......... Sc* C Fo<br> *Pinus bungeana*
- **Tanyosho Pine** .......... Sc* V Fo<br> *Pinus densiflora ‘Umbraculifera’*
- **Umbrella Pine** .......... Sc* C Fo<br> *Sciadopitys verticillata*
Years Later...

Carrie’s in college; Mildred and Zack are retired. A happy end to this story transpires. The families reminisce about planting around their homes. How their nine trees have flourished; the good memories have grown. The beauty came easily. Tree troubles were few. Most of the work came when their plantings were new.

The trees all stayed perfect in size, shape, and health. And they’ve added a wealth of enjoyment to the families. County, city and power crews are pleased as well that those trees grew in sync with utilities.

The story continues with each day anew, hoping all your right tree dreams happily come true.

The End
Key to Small Trees

Deciduous Broadleaf Trees

**AMERICAN SMOKETREE**  
*Cotinus obovatus*  

**AMUR MAACKIA**  
*Maackia amurensis*  
Unusual round-headed tree with dark olive green compound leaves and white summer flowers. Older trees develop a bronze colored bark, which peels into loose curls. Performs best in well-drained soils.

**AMUR MAPLE**  
*Acer ginnala*  

**CORNELIAN CHERRY**  
*Cornus mas*  
Surprising display of yellow flowers in late winter followed by crop of edible red fruits of wildlife and culinary value. Beautiful, multi-colored flaking bark. Leaves small and glossy, often turning reddish in autumn. Tolerates some drought, but prefers partial shade and well-drained, fertile soils. Native to Europe. Japanese cornel (C. officinalis) is similar.

**CRABAPPLES**  
*Malus species and cultivars*  
Numerous species and cultivars provide a wide variety of growth forms, foliage and flower colors, fruit and autumn interest. All require full sun. Some of the most disease-resistant ornamental crabapples for the Pacific Northwest are:

- **‘ADIRONDACK’**  
  Late white bloomer with a densely upright growth habit and bright red 1/2” fruit.

- **‘GOLDEN RAINDROPS’ TM**  
  Star-like white flowers, distinctive cut-leaf foliage and small golden fruit make this one of the best all-season crabapples. Upright vase shape.

- **‘PRAIRIEFIRE’**  
  Bright pinkish-red flowers and reddish –maroon summer foliage helps this crabapple stand out in a green landscape. Spreading, rounded form.

- **‘SENTINEL’**  
  Narrow and upright, showy red buds open to pink-tinged white flowers and very persistent small bright red fruits.

- **‘SUGAR TYME’ TM PP.7062**  
  Masses of brilliant white fragrant flowers develop into red fruit that hang like jewels through the winter. Upright and oval.

- **MALUS X ZUMI ‘CALOCARPA’**  
  Vigorous, dense small tree with profuse white flowers and showy red fruit. Rounded and spreading.
CRAPEMYRTLE
*Lagerstroemia species*
Small trees with late blooming clusters of white, pink, red or lavender flowers. May take time to develop in the cool Northwest climate. Beautiful patchwork bark is a handsome asset in the winter.

EASTERN REDBUD
*Cercis canadensis*
Rosy flowers in early spring before foliage. Heart-shaped leaves attractive in summer, later turning clear yellow. Requires well-drained, fertile soils. Similar to Judas tree (C. siliquastrum) but less drought tolerant and more cold hardy. Native to eastern North America.

‘LEPRECAUN’ ASH TM
*Fraxinus Pennsylvanica ‘Johnson’*
Nice handsome formal tree with round-headed shape that stays round with no pruning. Good yellow fall color. Prefers full sun.

FLOWERING MAGNOLIA
*Magnolia kobus var. loebneri*
Large, white, fragrant flowers in early spring before leaves. Distinct, dense branching with silver-grey bark. Requires moist soils and full sun. Best in protected sites. Native to Japan. Star magnolia (M. k. var. stellata) is similar but shrubby.

GLOBE NORWAY MAPLE
*Acer platanoides ‘Globosum’*
A dwarf form of Norway maple. Wide-spreading crown. Excellent drought, heat and pollution-tolerant. Acer ‘Crimson Sentry’ is another small maple, with purplish leaves which retain their color through the season.

GOLDEN CHAIN TREE
*Laburnum x watereri*
An upright oval tree with golden yellow chains of flowers that look like yellow wisteria flowers. This is tolerant of poor soil and drought. Unfortunately, all parts are toxic.

GOLDEN ASH
*Fraxinus oxycarpa ‘Golden Desert’ TM*
Small, round-headed tree with golden foliage and twigs from spring to fall. Tolerant of city conditions. Fraxinus excelsior ‘Globosum’ or Globe Ash is similar in form, but has green leaves and brown twigs.

GOLDEN RAINTREE
*Koelreuteria paniculata*

HARDY HIBISCUS
*Hibiscus syriacus*
A small tree with summer flowers in pink, white or lavender. Although often seen as a multistem large shrub, it can be grown with a single stem and forms a tidy small tree.
**JAPANESE DOGWOOD**  
*Cornus kousa*

**JAPANESE MAPLE**  
*Acer palmatum*
Beautifully textured foliage with excellent fall color. Numerous cultivars are available that differ in color, texture, and habit of foliage. Requires moist, fertile soil. Prefers some shade. Native to Japan. Fullmoon maple (*Acer japonicum*) is similar.

**JAPANESE SNOWBELL**  
*Styrax japonica*

**JAPANESE STEWARTIA**  
*Stewartia pseudocamellia*
Large, white camellia-like flowers produced all summer long. Rich, medium textured foliage turns shades of red/orange/yellow in fall. Patchy multicolored bark. Delicate branching provides year-round interest. Requires moist, fertile soil, and partial shade. Native to Japan. Mountain stewartia (*S. ovata*) is similar; native to southeastern North America.

**JAPANESE TREE LILAC**  
*Syringa reticulata*

**ORIENTAL CHERRY**  
*Prunus serrulata*
Sensational display of pink to white flowers in April and May. Prefers full sun and moist, fertile soils. Numerous cultivars provide double-flowered forms and diverse growth habits. Good selections include:

- **‘AMANOGAWA’**
  Pink, semidouble form in late spring. Columnar.

- **‘SHIROFUGEN’**
  Late-flowering with double pink blossoms. Wide-spreading form.

- **‘SHIROTAE’**
  Early semidouble white flowers. Fragrant. Wide-spreading form.

- **‘UKON’**
  Semidouble pale yellow flowers. Bronze new foliage.

**PAPERBARK MAPLE**  
*Acer griseum*

**PURPLE PLUM**  
*Prunus cerasifera*
Early spring displays of pink or white flowers. Green or purple summer foliage turning red and yellow in fall. Drought tolerant. Prefers full sun for best foliage color and flower show. Numerous cultivars with purple foliage include ‘Thundercloud’ and ‘Newport’. ‘Purple Pony’ is the smallest growing form.

**RED CASCADE MOUNTAIN ASH**  
*Sorbus americana*
Unusual red fruits persist into winter. Small, white clusters of mid-spring flowers. Foliage turns red-yellow in fall. Prefers moist, fertile, well-drained soil and full sun. Native to northeast North America. Forest mountain ash (*S. forrestii*) is similar but with pure-white fruits.
SERVICEBERRY
*Amelanchier xgrandiflora*
Fleeting but stunning pink or white flowers before leaves emerge, followed by edible purple fruits. Good wildlife value. Young leaves reddish, turning bluish-green. Great red-orange, early fall color. Smooth silvery bark. Prefers moist, fertile soils. Sun or shade. Upright ‘Robin Hill’ is an excellent street tree. Allegheny serviceberry (*A. laevis*) is similar; its cultivar ‘Cumulus’ is also upright in form.

SOURWOOD
*Oxydendrum arboreum*

STAGHORN SUMAC
*Rhus typhina*
Coarse-textured leaves turn brilliant orange-purple-red in fall. Open, flat-topped branching gives winter interest. Branches densely covered with red hairs. Female plants have maroon seed clusters that linger all winter. Good wildlife plant. Fast growth to mature height. Tolerant of pollution, drought, poor soil and other extreme conditions. Native to North America. Nutgall tree (*R. chinensis*) is similar but has fluffy mid-summer flowers.

VINE MAPLE
*Acer circinatum*

WASHINGTON HAWTHORN
*Crataegus phaenopyrum*
Large masses of white flowers in June/July result in many bright orange fruits that persist through winter. Attractive horizontal branching and pyramidal form. Tolerant of pollution and extreme urban conditions. Native to southeastern North America.

WHITE FRINGETREE
*Chionanthus retusus*
Display of unusual white flowers in early summer. Coarse-textured glossy leaves expand late in spring, turning yellow in autumn. Drought and heat tolerant. Sun or partial shade. Native to China and Taiwan.

WITCH-HAZEL
*Hamamelis x intermedia*
Fragrant yellow or rust colored flowers in late winter or very early spring. Large, rich-green foliage turns clear yellow in late autumn. Tolerates partial shade and most soils. Prefers moist, fertile sites. Native to China. Japanese witch-hazel (*H. japonica*) is similar but has red autumn foliage and red flowers.

Broadleaf Evergreens

CALIFORNIA LILAC
*Ceanothus species*
These evergreens form attractive specimens covered in spring with beautiful blue or white flowers and glossy dark green leaves throughout the year. Different selections range in size from low growing ground covers to small trees. Drought-tolerant and pest-free. Requires sun and well-drained position.

EVERGREEN MAGNOLIA
*Magnolia grandiflora ‘Little Gem’*
These are worthwhile and handsome trees useful as a screen or grouping. These have beautiful evergreen foliage and fragrant summer flowers. ‘Little Gem’ stays smaller than other evergreen magnolia cultivars.
FRASER PHOTINIA
Photinia x Fraseri
Commonly seen as a shrub used for hedges. Can be trained into a single stem form. Bright red new growth fades to deep green. White flowers in terminal panicles. Dense canopy. Best in well-drained, moist soils but highly adaptable.

GLOSSY PRIVET
Ligustrum lucidum
Massive displays of white-yellow blossoms in late summer followed by clusters of black berries on red fruit stems that persist through winter. Large, glossy leaves. Best trained to a single stem. Drought and pollution tolerant. Prefers full sun. Native to China.

LEATHERLEAF VIBURNUM
Viburnum rhytidophyllum
An excellent specimen used for massing or useful as a screen. Tolerates shade. Ornamental in bloom with creamy white spring flowers.

PACIFIC WAX MYRTLE
Myrica californica
Aromatic glossy green willow-like leaves. Inconspicuous flowers. Highly tolerant of a variety of exposures and soils. Full sun or partial shade. Resistant to salt spray. Good plant for screening. Can be pruned into a hedge or small tree. Native to West Coast.

RHODODENDRON
Rhododendron sp.
Some species are arboreal, meaning they form small trees. Many flower colors available. May need patience for tree size to develop. Tolerates shade and prefers moist, acid soils.

STRAWBERRY TREE
Arbutus Unedo
Common landscape shrub which can be grown as single stem tree. White urn-shaped flowers in the fall develop into attractive orange-red fruits in the spring. Drought tolerant. Prefers full sun and well-drained soil. Native to Ireland and southern Europe.

Needled Evergreens

BRISTLECONE PINE
Pinus aristata
A shrubby and picturesque pine with a slow but determined growth habit. Handles dry and rocky soils. Needs full sun exposure. Some trees in the Southwest are known to be 4,000 to 5,000 years old.

DWARF HINOKI CYPRESS
Chamaecyparis obtusa
There are many handsome selections of this graceful conifer. All display cupped sprays of dark green foliage and are often seen in Japanese style gardens.

‘ELEGANS’ JAPANESE CEDAR
Cryptomeria japonica ‘Elegans’

JAPANESE UMBRELLA PINE
Sciadopitys verticillata

LACEBARK PINE
Pinus bungeana

TANYOSHO PINE
Pinus densiflora ‘Umbraculifera’
Tree Information and Permit Directory

For information regarding electrical utilities and trees, call Cowlitz Co. PUD, (360) 501-9518.
For tree planting, pruning or removal, particularly in street rights-of-way, contact your local city or county.

Call-Before-You-Dig at 811.

The Miller Library, University of Washington Center for Urban Horticulture: (206) 543-0415
GENERAL PLANT MATERIALS AND PLANT SELECTION REFERENCES


*Tree City USA Bulletins*, published periodically by Friends of Tree City USA, Nebraska City, NE: National Arbor Day Foundation.


CULTIVATION (PLANTING, PRUNING, AND MAINTENANCE)


Handy Telephone Numbers

Community Resources:
Call Before You Dig (48-hour response) ......................................................... 811
University of Washington, Center for Urban Horticulture, .................. (206) 543-8616
   Elisabeth Miller Library ................................................................. (206) 543-0415
International Society of Arboriculture Pacific NW Chapter .................. (503) 874-8263
   Toll Free ................................................................. (800) 874-8263
Master Gardeners ................................................................. 205-8616
PlantAmnesty ........................................................................ (206) 783-9813
Washington Association of Landscape Professionals ....................... (206) 209-5285
   Toll Free ......................................................... (800) 874-8263
Washington Dept. of Natural Resources Community & Urban Forestry Programs .. (360) 902-1703
Washington Native Plant Society .................................................. (206) 527-3210
Longview Public Library ................................................................. (903) 237-1350