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## "I SATIN MY SUNNY DOORW AY FROM SUNRISE

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## SOHITUDE AND STILLNESS."

Henry D avid Thoreau 1817-1862<br>Excerpt from Walden

Trees are an important natural resource in the community we share. They add beauty to our surroundings. They clean the air and provide shelter and food for birds, small animals and insects. They protect us from harsh winter winds and provide shade on a hot summer's day. They can even lower utility bills when planted in the right spot. But when they're planted in the wrong spot, trees can threaten the dependability of your electric service and pose a safety hazard. $\boldsymbol{\Delta}$ Our challenge at PSO is to balance respect for trees with our need to provide safe and reliable electric service. $\mathbf{\Delta}$ Trees are the leading cause of electric power outages and contribute to "nuisance" problems, such as flickering lights and momentary outages. Just one tree limb in contact with a power line can disrupt electric service to dozens of families for blocks around.
A PSO's Forestry program is designed to reduce outages caused by trees through a program that combines line clearance work with public education on the importance of planting the right tree in the right place. $\boldsymbol{\Delta}$ Planned line clearance work is carried out by professional tree service contractors under the direction of PSO's staff arborists (degreed tree professionals). Following trimming standards set by the International Society of Arboriculture, these workers trim trees so limbs won't interfere with electric lines. These standards, coupled with proper trimming methods, preserve the tree's health while providing safe, reliable electric service. $\boldsymbol{\Delta}$ Sometimes it is necessary to remove a tree growing underneath the power lines rather than trim it. When we remove a tree, the PSO forester can help property owners select the proper tree to replant. Planting the right tree away from power lines will help replenish local urban forests with quality trees and eliminate tree/power line conflicts. © PSO has drawn upon the knowledge of experts to assemble the information contained in "Tree Tips: A Planning Guide" to help you make good decisions about planting and caring for your trees. We hope you find it a useful information tool.

H appy tree planting!
Public Service C ompany of O klahoma

Average shadow lengths for five different tree heights are shown for different times of day: the shortest distance is the shadow at noon, the middle distance is the shadow at 9 am and 3 pm , and the longest distance is the shadow at 8 am and 4 pm .


Planting shade trees is one of the simplest, most cost-effective, energy-saving steps you can take. The objective of locating trees for shade is to shield your home's roof and walls from the hot sun as well as to cool sidewalks and drivew ays that reflect heat. Energy savings can result with as little as 20 percent of the roof shaded. W ith 50 percent of the roof shaded, you can cut your cooling costs in half. Shade from trees and shrubs can also improve your air conditioner's operating efficiency by 10 percent.

Some trees are compact and produce dense shade while other trees are more spreading with less-dense shade. You should consider less-dense shade if you desire a larger variety of landscape planting under and around the trees.

BY PROPERLY PLANTING TREES AROUND YOUR HOME, YOU CAN PROVIDE A BEAUTIFUL LANDSCAPE AND ADD VALUABLE ENERGY-SAVING BENEFITS YEAR-ROUND. SHADE TREES KEEP OUTSIDE TEM PERATURES COOL IN THE SUMMER WHILE TREES PLANTED AS WINDBREAKS BLOCK THE CHILLING WINTER WIND.

Other factors you should consider when planting trees for shade include tree placement, mature height of the tree, and the sun's angle during the summer. These factors determine how much shade the tree will cast over a given area. The chart above illustrates summer shadow lengths produced by trees at various times of the day.

CONSIDER THESE POINTS WHEN SELECTING TREES AND THEIR PLANTING LOCATIONS TO HELP SAVE M ONEY ON YOUR ENERGY BILLS:

## W indbreaks block the winter chill

While shade trees conserve energy in the summer, evergreen trees and shrubs planted to block the wind conserve energy in the winter. Planting pines and other evergreen trees to the north of your home can reduce winter wind velocities by 75 percent and possibly save up to 25 percent on heating costs.

It's important to know the direction of wintertime prevailing winds. The combination of evergreen trees and shrubs can be used as a barrier to redirect harsh winds away from your home. For best results, the windbreaks should be planted between 30 and 120 feet from your home or the area to be protected.

## Shade trees block summer sun

- MEDIUM AND LARGE VARIETY TREES PROVIDE EXCELLENT COOLING BECAUSE THEY SHADE YOUR HOUSE AND YARD. THIS HELPS COOL BOTH OUTSIDE AND INSIDE TEMPERATURES. SELECT TREES WITH WIDE-SPREADING BRANCHES AND LESS-DENSE SHADE.
- CONSIDER THE SEASONAL SUN ANGLES W HEN PLANTING FOR SHADE. HOM ES WITH LARGE SOUTH AND WEST EXPOSURES NEED SHADE IN MID TO LATE AFTERNOON SUN.
- WHEN PLANTING TO SHADE YOUR AIR CONDITIONING UNIT, BE CAREFUL NOT TO PLANT TOO CLOSE TO THE UNIT BLOCKING ITS AIR FLOW.
- IT TAKES TIME FOR TREES TO MATURE ENOUGH TO PRODUCE RESULTS, SO START PLANNING AS SOON AS POSSIBLE.


Plant shrubs under utility lines; small trees should be planted at least 15 feet away.

Plant evergreen varieties on the north and west side as a winter windbreak.

A
Evergreen shrubs can be planted at the edge of evergreen trees to help direct winter winds away from your house.

Plant medium to large deciduous trees on the east, south, and west side for shade and to block the hot summer winds.


Trees and shrubs add great beauty to the home landscape for little cost. However, many people are tempted to buy whatever tree is on sale and drop it into a hole without considering the site conditions or the type of tree. Our advice? Take time to plan. You'll be rewarded with beautiful results.

No single tree species is suitable for every site or for all landscaping purposes. Lack of planning can turn good intentions into serious problems. The w rong tree in the wrong location can result in clogged sew ers, cracked foundations and sidew alks, and even power outages as trees grow into nearby electric lines.

## Look before you leaf

Trees in contact with electric lines are the leading cause of power outages and quality of service problems, such as flickering lights and momentary loss of service.

Unfortunately, thousands of trees are growing too close to the power lines and must be trimmed or removed to prevent power outages and safety hazards. (The illustration above shows how trees grow ing too close to the power lines are trimmed to protect tree health while providing the necessary line clearance for reliability and safety.)

THE "LOOK BEFORE YOU LEAF" ILLUSTRATION (AT RIGHT) DEPICTS RECOMMENDED DISTANCES FOR PLANTING TREES AW AY FROM POW ER LINES. THE DISTANCE IS MEASURED PERPENDICULAR TO THE POWER LINES. IF YOU FOLLOW THE SUGGESTED PLANTING DISTANCES, YOUR TREES MAY NEVER NEED UTILITY TREE TRIM M ING. ALSO, NEVER PLANT TREES OR SHRUBS WITHIN 10 FEET OF A TRANSFORMER MOUNTED ON THE GROUND OR ON A UTILITY POLE THAT MIGHT BE IN YOUR YARD. THIS ALLOW S FOR ACCESS TO PERFORM ROUTINE MAINTENANCE.

When you're ready to add a tree in your yard, PSO urges you to look up first before heading to the nursery to make sure you're not about to plant the wrong-size tree too close to the power lines.

The key is to plant small, medium or large trees the appropriate distance from the pow er lines so they are less likely to grow into the lines.

N ever plant a tree underneath power lines Only low-growing shrubs should be planted below power lines Small variety trees need to be planted at least 15 feet away from power lines, medium variety trees at least 30 feet away and large variety trees at least 40 feet away from power lines.

Hundreds of tree species are available to purchase and plant: tall trees, short trees, ornamental and shade trees. Some trees can grow in full sun while others need some shade. By carefully selecting the right tree for the right place, your investment will pay off each year. $\boldsymbol{\Delta}$ Avoid buying the fastest growing or the cheapest tree you can find. It may be a costly mistake you'll pay for later. Fast-growers usually are weak-wooded trees that are damaged easily during storms. These trees are hazardous if located adjacent to dwellings or power lines and they will require repeated pruning. In addition, they are often prone to surface roots and insect and disease problems. Consider why you're planting the tree and then find a tree that fits those needs. To ensure the tree you select meets your needs, answ er the planning questions below. $\boldsymbol{\Delta}$ The following chart lists many species of trees that grow well in Oklahoma. Take this guide with you when you visit your local nursery or greenhouse. Use it to discuss your landscaping needs with the nursery representative. Remember, this is only a guide to help you get started, not an all-inclusive list.

PLAN, BEFORE YOU PLANT. THE FIRST STEP IS TO DRAW A PLANNING SKETCH OF YOUR YARD SHOW ING ALL STRUCTURES, UTILITIES AND EXISTING PLANT M ATERIAL. (REFER TO THE INSIDE BACK COVER.) LAN DSCA PING SOFTWARE ALSO IS AVAILABLE FOR HOM E COM PUTERS.

M ARK THE AREAS W HERE YOU WANT TO PLANT, THEN ASK YOURSELF THESE QUESTIONS:

- What kind of space is available in the site selected for tree planting? Are there utility lines or other facilities above or below?
- Are there other structures such as storage sheds, sidew alks, pools, etc. that could be affected?
- Are there existing trees and shrubs in the area?
- What is the tree's purpose: accent, color, energy conservation, screening, etc.?
- Does the tree you want meet that purpose?
- How much maintenance does the tree require? For example, does it need annual pruning to remain attractive or just periodic pruning?
- Does it have leaves or seeds that may cause a bigger-than-usual litter problem?
- Is the tree adapted to your soil conditions? For example, is your soil shallow, rocky or clay?
- Does the tree need frequent watering or is it drought-tolerant? Can it withstand wind and ice?
- What kind of disease and insect problems are common to the tree?
- Are improved varieties of the tree available?


## TREE SPECIES CHARACTERISTICS



## TREE SPECIES CHARACTERISTICS



| TREE SPECIES CHARACTERISTICS |
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## TREE SPECIES CHARACTERISTICS



## TREE SPECIES CHARACTERISTICS



## PROBLEM ATIC TREES

Bradford Pear. Highly over-planted, fast-grow ing landscape tree. Prone to much storm and insect/disease damage.

Eastern Cottonw ood. Fast-grower. Produces massive amount of cotton-like seeds that can cause allergy problems and clog air conditioners. Even the cotton-less variety produces a massive root system that can destroy sew ers, walks, foundations, etc. The branches are susceptible to wind and ice damage.

Mimosa. Short-lived tree. Weak-wooded; susceptible to wind and ice damage. Has branch sucker problem under stress. Disease and insect problems likely as tree grows older.

Lombardy Poplar. Short-lived tree. M ay live only ten years before disease and wood bores destroy it. W eak wood susceptible to wind and ice damage.

White Poplar. Fast-grower. Susceptible to wind and ice damage. Has extensive root system that produces suckers or sprouts.
$M$ ay have insect problems.

Silver M aple. Widely over-planted species. Weak wood susceptible to wind and ice damage. M ajor surface root problems.

Chinese Tallow. Rapid growing hearty w eed-type tree. Often forms thickets.

Alianthus (Tree of Heaven). Extensive root system. Root suckers or sprouts spring up along root system and eventually take over the landscape.

Salt Cedar. Fast-grow ing species considered a pest because it chokes small waterways and crowds out desirable vegetation.

## IMPROVED VARIETIES

## Flow ering Crabapple.

CALLAW AY. Light pink buds with white blooms.
TOINIKO. Dark maroon buds with red-purple blooms.
M ARGARET. Pink blooms in clusters.
J ACKII. White blooms.

## Flow ering Dogw ood.

CHEROKEE CHIEF. Dark Pink blooms.
CLOUD 9. White blooms.
W HITE CHEROKEE PRINCESS. White blooms in early spring.
FIRST LADY. Green-yellow variegated foliage.

## Green Ash.

URBAN ITE. Good crown development, lustrous leaves and protective bark.
M ARSHALL SEEDLESS. Drought-tolerant with dark green foliage and yellow fall color.
SUM MIT. Same as above but slower growing.

## Red Maple.

DRUM M ONDI. M edium green foliage with red-orange fall color.
OCTOBER GLORY. Glossy green foliage with scarlet to crimson fall color.

RED SUNSET. A fast grower with good foliage color and red fall color.
AUTUM N FLAM E. Smaller leaves and early fall color. CADDO. Drought-resistant. Native to southwestern Oklahoma.

Proper tree planting. In typical compact urban soils, the planting area needs to be at least 5 times the root ball diameter. The root ball must nest on solid, undisturbed soil. No soil amendments are necessary. Water thoroughly and add wood chips over the planting area.
$\nabla$


When you're not sure what to look for, selecting trees at the nursery can be confusing. The best size for do-it-yourself projects ranges from seedlings up to about 2 inches in caliper. Caliper refers to the thickness of the trunk 6 inches above the root ball. Larger trees are heavy and should be planted by professional landscapers.

## Once you have decided the size you want, look for the following:

1 A single, straight main trunk with no broken or dead branches, and smooth bark with no cracks, splits or sunken areas.

2 Check the twigs. You can tell if they are healthy by barely scratching the bark with your thumbnail. If you uncover bright green, the tree is healthy; how ever, if dull green or brow nhow, keep looking for a healthier tree.

3 Check the root ball. The tree's root ball should be tight and moist. If the root ball is dry or the tree seems loose in the root ball, avoid that tree.
$4 M$ any nurseries grow trees and shrubs in pots. If roots are circled around the top of the pot or are growing heavily out of the bottom, avoid that tree.

5 Carry your tree by the root ball, not the trunk. Root damage can occur if the heavy root ball is left unsupported.

6 Plant the tree using the improved planting method as detailed on page 14.


STAKING M AY NOT BE NECESSARY, ESPECIALLY ON SM ALLER TREES; HOW EVER, IF A TREE CON TINUES TO LEAN IN THE PLANTING HOLE, STAKING IS RECOM M ENDED. IN M OST CASES, STAKING ONLY REQUIRES A SINGLE M ETAL FENCE POST OR LONG W OODEN STAKE.

- On the opposite side of the lean (usually the direction from which the prevailing wind blows) drive the stake into the ground two or three feet from the tree. Leave enough of the stake above ground so at least the top of the stake is even with the low est branch.
- Use small rope or heavy twine to tie the tree to the stake. It is best not to use wire as it can damage the tree even if you use protective
hose over the wire. Remember, the rope and stake are designed to keep the tree from blowing over, not to keep it from moving. The movement of the tree helps to strengthen the trunk and roots.
- Don't leave the stake on a tree for more than one growing season. If the tree falls over after one season, there are other problems that need to be addressed, such as insect or disease problems or adverse soil conditions. It may be best to replace the tree with a new tree in a different location.
- Tree wrap is not recommended because it can cause rot to develop along the trunk underneath the wrap.


## FERTILIZER APPLICATION RATES (IN POUNDS)


*Application rate for trees 2 " to 12 " is figured at 1 pound of actual nitrogen per 2 " of tree diameter. For trees $14^{\prime \prime}$ and up the rate is $1 / 4$ pound of actual nitrogen per $2^{\prime \prime}$ of diameter.

Fertilizing trees can be a confusing issue. There seem to be as many fertilizing methods as there are fertilizers. The most important thing to remember is that your trees are part of the bigger picture: your yard. What you do to your lawn and flowerbeds will have a direct impact on your trees and shrubs. If you have an annual lawn maintenance plan that includes fertilizing, you are also fertilizing your trees. Current research shows over 85 percent of a tree's root system is in the top 24 inches of the soil

M ost soils have an ample supply of nutrients for good tree growth. The best thing to do before you fertilize is to have a soil sample tested. A complete soil test will indicate what nutrient deficiencies may exist in your soil. The test will also indicate soil pH.

## Soil pH

Soil pH is probably the single most limiting factor affecting plant growth. Generally, soils tend to become more acidic as fertilizers are used. A soil pH above 7 is alkaline and below 7 is acid. Most trees prefer a soil pH ranging betw een 6 to 7.5. If soils become too acid, or too alkaline, nutrients can become unavailable to tree roots and cause unhealthy trees. Several soil pH test kits are available on the market. How ever, to get a complete nutrient test you will need to take your soil sample to your Cooperative Extension Office.

IF THE SOIL TEST INDICATES THAT YOU NEED TO FERTILIZE, HERE ARE SOM E HELPFUL HINTS:

- Fertilize every couple of years.
- Use a time-release fertilizer that has a moderate to low percentage of nitrogen ( N ), and a low percentage of phosphorous $(\mathrm{P})$ and potassium (K).
- The best time to fertilize is mid-fall (September) and late spring (M ay). Distribute the fertilizer evenly under the branch spread and 10 feet or more beyond. W hen you fertilize trees or lawn, be sure to water thoroughly afterw ard.

Refer to the fertilizer application chart above to help you determine how much is enough. Two things you will need to know to use the chart are fertilizer nitrogen percentage and tree diameter. Nitrogen percentage can be determined by finding the fertilizer numbers on the front of the bag. The first number in the three number series is the percent of nitrogen. For example, a 16-6-12 fertilizer has 16 percent nitrogen.

Tree diameter is determined simply by measuring the distance around the trunk 4-1/2 feet above the ground. Divide the distance in inches by 3 to figure the diameter.

## WATERING



A watering program is important to help establish newly planted trees. A slow, soaking watering once a week for the first three years is essential. Short, daily watering is harmful because it makes plants less drought-tolerant, and it pushes needed oxygen out of the soil.

Soil texture affects how long it takes water to soak into the root zone. The illustration above shows the time it takes water to soak into sandy or clay soil. Sandy soil requires more frequent watering because water passes through it more quickly.


To remove larger branches, its best to remove the bulk of the weight before making the collar-cut. As the illustration shows, make the first cut by sawing upward onequarter of the way through the branch (A). Next, cut downward through the branch until it drops (B). M ake the final collar-cut ( C to D ) without peeding the bark down the trunk. We don't recommend the use of pruning paint or any other type of dressing. These products may only inhibit the branch collar from < growing new wood.

Next to planting your tree in the right place, correct pruning is the best way to prevent future problems. M erely taking a saw and cutting off an unwanted branch is not the right way to prune. Stubbed-off branches and branches cut flush with the trunk - common pruning mistakes - usually result in disease and insect problems for your tree.

Trees heal only by growing new wood over the wound; they cannot replace damaged tissue with new tissue. The faster the new wood grows over the area, the sooner the area is protected from disease or insects. Fortunately, nature has given trees something to help new wood grow faster: a branch collar.

The branch collar is a swollen area at the base of every branch fork. Pruning cuts should be made at the point where the branch meets the swollen collar (see pruning illustration). Pruning at the collar allows the tree to quickly grow new wood over the wound. Using this technique, you can prune at any time of the year. On the other hand, by cutting flush with the trunk, you remove the collar making it harder for the tree to cover the wound. By leaving stubs, the new wood is not able to grow over the wound.


## Healthy alternative to topping

AS AN ALTERNATIVE TO TOPPING/HAT-RACKING, "LATERAL-BRANCH TRIM MING" CAN BE USED TO REDUCE A TREE'S OVERALL SIZE. LATERAL-BRANCH TRIMMING RETAINS THE OVERALL SHAPE OF THE TREE AND INCORPORATES PROPER PRUNING CUTS. RATHER THAN ALL BRANCHES BEING LOPPED OFF LEAVING STUBS, SELECTED BRANCHES ARE PRUNED AT THE FORK USING THIS TECHNIQUE. REDUCING TREE SIZE CAN OFTEN BE ACCOM PLISHED WITHOUT HAVING TO CUT BRANCHES LARGER THAN SIX INCHES IN DIAMETER.
"Topping" your tree (trimming the tree to resemble a "hat-rack") is the worst thing that can be done to harm the health of a tree. Trees are often hat-racked because the owner becomes worried that the tree is growing too large, or the ow ner believes topping is "good" for the tree because of the new foliage that results. Regardless of what reason is given, the fact is science clearly shows that topping/hatracking only produces negative results, such as the following:

- Damage to the tree's health. As the protective crown is removed, the trunk is exposed to possible scalding by the sun.
- Disease and insect infestation on the stubbed branches resulting in accelerated wood decay and spread of diseases.
- Excessive re-grow th. The new weakly attached sprouts grow with narrow v-shaped forks, making them more susceptible to wind and ice damage.


## ARBORISTS ARE TREE PROFESSIONALS AND ARE THE MOST KNOWLEDGEABLE PERSONS TO CONSULT ABOUT YOUR TREES. ARBORISTS MAY HAVE A DEGREE IN FORESTRY OR HORTICULTURE (OR OTHER FIELD OF STUDY) OR THEY MAY POSSESS CERTIFICATION BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). SOME ARBORISTS HAVE BOTH A DEGREE AND ISA CERTIFICATION.

## W hen to hire an arborist

There are times when a property ow ner would benefit from hiring an arborist for consultation services, but it's not alw ays easy to determine when this should be done. Here's a suggestion for how to make that determination:

TAKE A CLOSE LOOK AT YOUR TREES AND ASK YOURSELF THESE QUESTIONS:

- Are there cracks in the trunk or splits in the bark?
- Are there storm-damaged branches or other branches that need to be pruned?
- Are branches dying?

If the answer is "yes" to any of these, you should consult an arborist.

## How to hire an arborist

HERE ARE SOM E TIPS FOR SELECTING THE RIGHT ARBORIST FOR THE J OB:

- Look in the phone book's yellow pages for tree companies that list their educational credentials, such as a degree in Forestry or Horticulture, and/or certification by the International Society of Arboriculture (ISA).
- Ask your friends and neighbors if they can recommend a tree company with which they've had a good experience.
- Ask to see liability and worker's compensation insurance certificates. Call the insurance company to see if the policy is current. If damage occurs to your property or to a neighbor's or someone is injured, you are responsible if they don't have insurance.
- Ask for local references and verify the quality of work. Have more than one company look at your job. It's best to get at least three opinions.
- Ask about the company's pruning techniques. If they say they "flush cut" or suggest "topping" or "hat-racking" your tree, don't hire them.
- Be wary of anyone going door-to-door offering to do tree work. M ost reputable tree companies have plenty of work without knocking on doors.
- Don't be rushed by bargains; never hire someone who insists on being paid before the work is complete.

Tree roots don't grow like carrots. Eighty-five percent or more of a treeds roots exist in the top 24 inches of the soil. Roots can spread twice the height of the tree in good soil. In poor soil, they may only spread sightly past the branch drip-line.
 roots may only grow a few feet past the drip-line.

Heavy construction equipment, vehicle traffic, lawn maintenance, and foot traffic can threaten the health of your tree. Why? Because they trample and compact the soil, starving and suffocating the tree's roots.

Tree roots need oxygen and water to survive and grow. Compacted soil around the roots reduces the amount of oxygen and water available to the tree roots. Eventually soil compaction can suffocate the roots causing the tree to decline and die.

## Keeping root damage to a minimum

W hen a building or remodeling project requires heavy machinery on your property, be sure to tell the contractor, the foreman on site and anyone else involved in the project that you want your trees protected from damage during the work.

- M ake sure protective barricades are erected around trees. Protect as much area around a tree as possible, but at least out as far as the branches "spread" (also called the tree's "drip-line"). Roots can
- M ake sure utility contractors trench outside the protective barricades around your tree. If that's not possible, insist they bore or tunnel rather than trench.
- Use bricks, flagstone, gravel, etc. rather than continuous cement walks under trees.
- Use a turf aerator on an annual basis to aerate the soil under and around trees.

Here are some tips for protecting trees from damage by mowers and trimmers:

- Use mulch around young trees. This also will help conserve water.
- Plant perennial ground cover under older trees. Use your creativity
to design a ground cover bed as part of your overall landscape design.
- Place a section of corrugated PVC pipe around the base of the tree during the first few years of establishment.


## PSO IS CONCERNED ABOUT YOUR SAFETY.

## here are some safety Tips to keep in

## MIND W HEN LANDSCAPING AND DOING

## TREE WORK AROUND YOUR PROPERTY:

## Underground lines - call before you dig

Before you dig, remember to call your local underground locating service at least 48 hours in advance. The call is free. Touching an underground power line - with anything - could result in a serious or fatal injury. Protect yourself at home and at work. Call for help in locating these lines before you dig.

## In Oklahoma call 1-800-522-6543, a minimum of 48 hours before digging.

## Overhead power lines

Never attempt to trim or remove trees near any pow er line. Serious life-altering injuries and fatalities have occurred when untrained or
improperly trained individuals attempted to do such work. Remember: Electricity moves at the speed of light. Only tree contractors who are certified to work near power lines by the Occupational Safety and Health Administration should be used.

If trees have grown into the power line running from the pole to your house, PSO will be happy to disconnect and lower the service line temporarily. This will enable you to perform the tree work safely. We will then return and reconnect the line after the trimming is done. There is no extra charge to you for this service.

Please call PSO's customer service number to request this service: 1-888-216-3523. Customers are asked to make this request at least two business days in advance of the date they plan to clear their service line of vegetation.

## Sources for this publication

A Field Guide to Trees and Shrubs
America's Garden Book
Know It and Grow It II
M anual of Woody Landscape Plants
Planting New Life in the City
Urban and Community Forestry,
a Guide for the Interior Western United States
Tree City USA Bulletins
Taylor's Guide to Trees
Handbook of Landscape Cultivars

## Organizations

American Forestry Association
National Arbor Day Foundation
International Society of Arboriculture
National Arborists Association

Use this grid to draw a planning sketch of your yard. (Refer to "Before you plant, plan" on Page 6.)


Use this grid to draw a planning sketch of your yard. (Refer to "Before you plant, plan" on Page 6.)

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## FOR M ORE INFORM ATION

Landscaping and tree care practices are not as simple as they first seem. The more information you have, the better you will be able
to make a quality decision. A number of know ledgeable people around the state can answer your tree care questions.

C ontact your local nursery/garden center operator, extension agent or local forester. You can take your sketch as outlined on the inside back cover to one of these sources and ask for assistance in selecting trees and shrubs.

To request additional copies of "Tree Tips" please call:
1-800-305-6742

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