| Prepared by James T. Midcap, Extension Horticulturist; Kim D. Coder, Extension Forester; and Neal Weatherly, | al and | of Agricultura | gia College (| ty of Georg | The Universi | 30, 1914, | cts of May 18 and June riculture cooperating. | Issued in furtherance of Cooperative Extension work, A Environmental Sciences and the U.S. Department of Ag |
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| | d June, 2003 | Revise | | | | | | Leaflet 350 |
| College of Agricultural and Environmental Sciences | | orce | erse Work I | d to a Dive | on Committe | e 3 | Affirmative Action O Horticultur | An Equal Opportunity Employe |
| Cooperative Extension Service The University of Georiga | ooperative and materials | ating. The C , assistance <i>z</i> | state cooper nal programs | nties of the s educatior | Iture and cou Sciences offer | of Agricul onmental S | y, the U.S. Department Agricultural and Envirc n, age, sex or disability. | The University of Georgia and Ft. Valley State Universi Extension Service, the University of Georgia College of to all people without regard to race, color, national origing |
| | | | | | | | | |
| | | | | | | | ns with limb breakage. ractive flowers. | Bradford pear has attractive flowers, but has probler Chinese tallow tree and the goldenrain tree have at |
| | | ; | - | - | _ | ige. | th litter and limb breaka | Tulip tree has attractive flowers, but has problems w |
| | 6.7.8 | × | | | | | 30-60'/20-40' | Siberian Elm/Ulmus pumila |
| ı ı | 6,7,8 | × | | | | | 30-35'/30-35' | Mimosa/Albizia julibrissin |
| | 6,7,8 | X | | | | | 30-50'/20-30' | Empress Tree/Palownia tomentosa* |
| | ω | × | | | ×× | | 30-40'/20-30' | Chinese Tallow Tree/Sapium sebiferum |
| | 6,7,8 | × | | | | | 30-40'/25-35' | Chinaberry/Melia azedarach |
| | 6,7,8 | × | | | ~ | | 0-50'/ 25-35' | Bradford Pear/Pyrus calleryana 'Bradford' |
| | 6,7,8 | | × | | | | 50-75'/40-50' | Boxelder/Acer negundo |
| | | | | | | | ns.) | (Possesses undesirable traits and/or pest probler |
| | | | | | | | | Not Recommended |
| | 6,7 | | | | ~ | | 75-100'/60-80' | White Ash/Fraxinus americana |
| 「「「「「」」 | 6,7,8 | | × | | | | 30-40'/20-30' | Weeping Willow/Salix babylonica |
| | 6,7,8 | | × | | | | 60-100'/50-60' | Water Oak/Quercus nigra |
| | 6,7,8 | × | | | | | 60-80'/30-50' | Thornless HoneyLocust/Gleditsia triacanthos |
| | 6,7,8 | | × | × | × | | 80-100'/40-50' | Sycamore/Platanus occidentalis |
| | 6,7,8 | | × | | ~ | | 80-100'/40-50' | Sweet Gum/Liquidambar styraciflua |
| | 7,8 | | × | × | | | 90-100'/20-40' | Loblolly Pine/Pinus taeda |
| | 6,7,8 | | × | | | | 60-80'/40-50' | Green Ash/Franxinus pennsylvania |
| | 6,7,8 | | : | | × | | 20-30//10-15' | Goldenrain Tree/Koelreuteria paniculata |
| | | | | | | - | aits or pest problems | (Best on good sites; might possess undesirable to |
| | | | | | | - | | Good |
| | 6,7,8 | | × | | | | 40-60'/30-60' | Willow Oak/Quercus phellos |
| | 6,7,8 | | × | | ×× | | 80-100'/30-40' | Tulip Tree/Liriodendron tulipifera* |
| | 6,7,8 | × | | | | | 50-60'/30-60' | Sawtooth Oak/Quercus acutissima |
| | 6,7,8 | | X | X | | | 50-60'/40-50' | River Birch/Betula nigra |
| の一般の一般の一般の一般の | 6,7,8 | | X | | X X | | 40-60'/25-40' | Red Maple/Acer rubrum |
| | 6,7,8 | × | | × | | | 40-60'/30-40' | Lacebark Elm/Ulmus parvifolia |
| 「日日日」の必要にな | 6,7,8 | × | | × | | | 60-80'/30-40' | Japanese Zelkova/Zelkova serrata |
| やいようななない。 | 6,7,8 | × | × | × | ×× | | 60-100'/40-50' | Bald Cypress/Taxodium distichum |
| a state of the sta | | | | | | | utstanding features.) | (Tolerates wide range of sites and/or possesses c |
| | | | | | | | | Very Desirable |
| | Use | Tole | Tole | Dist | Goo | • | Height/Spread | Common Name/Botanical Name |
| | in Z | rate | rate | incti | sual | | | |
| | one | s Dr | s We | ive B | /Sho | | | |
| green thumb tips | | y Soils | et Soils | ark | wy Fru | | | East Crowing Trop Colocti |
| | | | | | — | | | |

Gale A. Buchanan, Dean and Director

י העשויבים by James T. Midcap, Extension Horticulturist; Kim D. Coder, Extension Forester; and Neal Weatherly, Jr., Head Extension Landscape Department

| | make sure the root ball has not been broken. When | trees; and fairly short-lived, to be used only as tempo- |
|---|--|--|
| | winter and early spring. When selecting a B & B tree, | gories: long-lived, to be used as permanent shade |
| 86 | grown trees, year round; and bare-root trees in the | Fast growing trees can be divided into two cate- |
| | trees in late fall, winter or early spring; container- | Placement |
| | (B & B), container-grown or bare-root. Plant B & B | |
| | Shade trees are usually bought balled and burlapped | analysis and provide additional information |
| | beneficial. | ni piant screetion office can assist you with your soil |
| 8 a | Amending an entire hed with organic material can be | in plant calection and help avoid future mobilems. Vour |
| | ic materials such as ground pine bark is as a mulch. | and a thorough viewal examination of the site will aid |
| | or tree. Research indicates that the best use of organ- | legal restrictions should be investigated Soil testing |
| | placed in the planting hole will not produce a superi- | obstructions such as utility lines rights-of-way and |
| | produce satisfactory results. Organic soil amendments | obstacles to root growth. In addition, manmade |
| | the root ball and with well-worked backfill soil will | and fertility, moisture extremes and underground |
| | growth. A large planting hole several times the size of | Below-ground factors include soil texture, structure |
| | Thorough soil preparation enhances good plant | sure), precipitation and adverse weather conditions. |
| | Culture | extremes in temperature, humidity, sunlight (expo- |
| | | that influences tree performance includes seasonal |
| | and azaleas need to nerform hest | established and grows. The above-ground environment |
| 73 | lightly filtered sunlight that plants such as camellias | plant's requirements, the faster the plant becomes |
| | such as honey locust or bald cypress, provide the | ronment to offer. The more closely the site meets the |
| | intensity and should be used to shade homes. Others, | optimum growth and every planting site has an envi- |
| 1 1 1 1 1 1 | tulip tree gives the maximum reduction in the sun's | Every tree species has environmental conditions for |
| | also important. Dense shade from trees such as the | |
| Plant Hardiness Z | smaller areas such as a patio or deck. Shade density is | Site Analysis |
| will dictate the next yea | trees can provide shade for the entire house or for | sions when selecting fast growing trees. |
| years, the results of a so | Depending on the ultimate size and arrangement, | will assist the homeowner in making informed deci- |
| tilizer evenly over the s | buildings, especially residences. | thoughts of replacement. The following information |
| usually after the first ye | early in the day, so provide some shade on this side of | ing the homeowner with a maintenance problem and |
| amounts of fertilizer u | eastern exposure. During midsummer it can get hot | The tree is now many years old and quite large, leav- |
| July during the first | shading is desired. However, do not neglect the south- | bitterly disappointing as problems reveal themselves. |
| each 10 square feet of r | ern sides of the building or area where additional | as satisfying—seeing rapid growth—can later become |
| to 16 percent nitrogen for | Concentrate shade trees on the western and south- | are good selections; many others are not. What starts |
| Irees should receive | existing tree plus half the spread of the proposed tree. | Many trees are advertised as "fast growing." Some |
| as pine bark or pine str | trees, allow at least half the mature spread of the | home landscape. |
| mulch with 2 to 3 inche | the trunk of any other large growing tree. For smaller | teria usually dominates the selection of trees for the |
| water initially, water the | obstruction and the full width of the mature tree from | benefits. The faster the tree grows, the better. This cri- |
| packing of the fill-soil, | their spread (see chart) from any structure or overhead | owner doesn't want to wait 15 to 20 years to enjoy the |
| procedure. Plant at the | Space large shade trees one-half the distance of | primary concern. The reason is obvious: The home- |
| There are several im | from overhead obstructions, including power lines. | When the homeowner selects a tree, fast growth is a |
| root) moist at all times | drain lines or sewer lines. Place these trees well away | homes; and even affect our moods. |
| root system. Keep all ty | Consequently, do not plant them near septic tank | frame views; add substantially to the value of our |
| been allowed to dry, or | tems with heavily developed systems of surface roots. | forms, textures and colors; help define outdoor space; |
| of bare-root trees and re | Many fast growing trees have aggressive root sys- | ceauty to the landscape by offering a wide range of |
| planting or do not buy the | slower growing, more permanent trees. | can channel summer breezes to desired locations; add |
| excessively). If so, dist | locations and temporary trees won t interfere with | relief from the summer sun—property placed trees |
| system is pot bound | With care so permanent trees won t outgrow their | addition to the obvious use of a shade tree—to provide |
| ntransferred for the second | rary snade trees. For both categories, select locations | Snade trees are versatile parts of our landscapes. In |
| | | OI J. K |
| | | |

prior to planting. urb the root ball just prior to ypes of trees (especially barewhere there is an inadequate ject those with roots that have ne tree. Check the root systems (roots circling the container trees, check to see if the root

es of an organic material such he tree in after planting, and construct a water basin to hold 2 proper depth, avoid excessive portant steps in the planting

ar's fertility program. soil, water it in. In subsequent ear. After broadcasting the fer-2 tablespoons of a 12 percent oil sample taken in late winter season. Do not apply large ntil the trees are established, oot area. Apply in March and ertilizer (12-4-8 or 16-4-8) per

ones

