



CONTAINER GROWN TREE GUIDE

The following information is intended to assist growers, buyers, and architects with selling, purchasing and design implementation of container grown trees. This publication does not in any respect prevent anyone – whether a member of the Association or not – from growing, marketing, distributing or buying plant material that does not conform to this guide as sizes may vary due to market availability. This guide is subject to periodic review and revision, and users are encouraged to visit the Arizona Nursery Association website at www.azna.org to download the most current copy.

This guide was prepared and published by the grower members of the Arizona Nursery Association. The growers appreciate and acknowledge the assistance and cooperation of the Arizona chapter of the American Society of Landscape Architects (ASLA) for their review and contribution to the original content.

This guide is limited to commonly available trees sold in container sizes from 15 gallon to 48 inch boxes that are grown under conditions typical of the southwestern United States by Arizona Nursery Association member growers. To obtain information for larger tree specimens or for field grown trees, buyers are encouraged to contact a number of reputable suppliers in their area to determine specifications and availability.

*****Any use of this document, and the information listed by any individual, corporation, municipality, state or federal agency for the purpose of regulating or restricting the sale or installation of the trees described is in direct contradiction to the expressed intent of the ANA and its members. The Arizona Nursery Association strongly disavows any such use.**

(Revised 2011)

BIGGER IS NOT NECESSARILY BETTER

The challenges of quality control, when applied to horticultural crops, are unique when compared to those used in traditional manufacturing. Quality is a fairly

subjective term and can be applied to appearance, reliability, health or simply consistency.

What makes horticultural "manufacturing" challenging is that the end products are living plants with each species produced having individual horticultural requirements and unique characteristics. Quality conscious growers employ an assortment of checks within a production process to insure that the trees they bring to market have sound horticultural qualities, are uniform in appearance, vigorous, long lived (with proper care following transplanting) and considered an asset to the landscape.

Trees in the desert Southwest are sold and priced by container size (15 gallon, 24-inch box, 36-inch box, etc) and specified or described based on their height, width and caliper. Of these criteria, tree caliper is a widely recognized indicator of root mass. It is the most visible way to determine if a tree is under or over grown in its current container or that the structure of the root system has been compromised in the process of growing the tree in the nursery.

In the pursuit of value, the motto "bigger is better" must be carefully applied when purchasing *container grown* landscape trees. The notion that a large tree growing in a smaller box is a bargain is usually incorrect in the long run. Longevity, growth and vigor of trees depend on a well developed and proportional root system.

"Bumping or Shifting" are terms commonly used in the nursery trade to describe the practice of transplanting plants or trees that have reached their optimal growth in their current sized container so they may continue to grow without compromising their root structure. Trees left too long in a container can become overgrown and develop circling or bound roots (root binding). Root binding is a horticultural time bomb that if allowed to develop, will severely shorten the life of maturing trees by causing crown girdling or by significantly increasing the risk of wind-throw. Quality control at this level of production involves taking steps to ensure that the root system is vigorous, appropriate to the container size and stage of development of the tree, and that the roots are well distributed without being overgrown.

In the current regulatory environment, some municipalities who have specified tree caliper alone, instead of appropriately matching caliper with box size, has created temptation to look for trees that satisfy caliper requirements at the lowest possible price, (i.e. smallest box size). Any short-term savings derived from purchasing trees overgrown for their containers will ultimately be lost through costs associated with tree replacement from death or die back caused by girdling roots or damage to the landscape and surrounding structures by wind throw.

Municipal regulations, emphasizing only a required caliper size, could contribute to a significant increase in the number of oversized trees in inappropriately small containers coming into the marketplace and thus planted in landscapes. The long

term impact of these poor quality trees on landscapes will be felt over a period of years. Quality and proportional root structure will always be an essential part of tree vigor, appearance and the long term durability of the landscape.

**Edited by the Arizona Nursery Association, with permission, from previously published materials.*

DEFINITION

MULTIPLE TRUNK TREE (“MULTI”): Specifications for multiple trunk trees begin on page 10. To be considered a multiple trunk tree, multiple trunks must originate either from the soil line or at a distance no higher than 18 inches above the soil. The origination point is defined as the center of the trunk being considered at the soil line of the container.

Any tree which has scaffold branches higher than the measurements outlined above are not considered multiple trunked trees. Whether or not such trees are considered standards or low branching standards is at the discretion of the buyer. Unless otherwise indicated, the sizes listed are intended to represent standard trunked trees. Trunk height will vary due to species traits and/or the horticultural practices of growers.

CALIPER DETERMINATION

CALIPER FOR STANDARD TREES: Tree caliper will be measured at 6 inches above the soil line.

CALIPER FOR MULTIPLE TRUNK TREES: Establishing the caliper of multiple trunk trees is complicated by: 1) the widely varying number of trunks per tree; 2) the differing rates of caliper growth between varieties within a single species and between species; 3) distance from the soil line where additional trunks originate and are measured and 4) the lack of consensus on how to properly calculate and report the caliper(s) of these specimens. For the purpose of this document, only height and width specifications are listed for multiple trunked specimens.

TREE LISTING BY BOTANICAL NAME

BOTANICAL NAME	BOX SIZE	HEIGHT <i>(in feet)</i>	WIDTH	CALIPER <i>(in inches)</i>
Acacia aneura	15	4.0-5.0	1.0-2.0	0.5-0.75
Acacia aneura	24	5.0-7.0	2.0-3.0	0.75-1.25
Acacia aneura	36	7.0-9.0	4.0-6.0	1.5-2.0
Acacia pendula	15	4.0-5.0	1.5-2.5	0.5-1.0

Acacia pendula	24	5.0-8.0	2.5-3.5	1.0-1.5
Acacia pendula	36	9.0-11.0	5.0-7.0	2.0-2.5
Acacia rigidula	15	4.0-5.0	2.0-3.0	0.5-0.75
Acacia rigidula	24	5.0-7.0	3.0-4.0	1.0-1.5
Acacia rigidula	36	7.0-9.0	5.0-6.0	1.75-2.25
Acacia rigidula	48	9.0-11.0	7.0-8.0	3.0-3.5
Acacia salicina	15	5.0-6.0	1.5-2.5	0.5-1.0
Acacia salicina	24	7.0-8.0	2.5-3.5	1.25-1.5
Acacia salicina	36	9.0-11.0	5.0-7.0	2.0-2.5
Acacia saligna	15	5.0-6.0	1.5-2.5	0.5-1.5
Acacia saligna	24	7.0-8.0	2.5-3.5	1.25-1.5
Acacia saligna	36	9.0-11.0	5.0-7.0	2.0-2.5
Acacia schaffneri	15	4.0-5.0	2.0-3.0	0.5-1.0
Acacia schaffneri	24	5.0-8.0	3.0-4.0	1.0-1.75
Acacia schaffneri	36	9.0-10.0	5.0-7.0	1.75-2.5
Acacia schaffneri	48	12.0-14.0	8.0-10.0	3.0-4.0
Acacia smallii (<i>Also for minuta and farmesiana</i>)	15	4.0-5.0	2.0-3.0	0.5-1.0
Acacia smallii	24	5.0-8.0	3.0-4.0	1.0-1.75
Acacia smallii	36	8.0-10.0	5.0-7.0	1.75-2.5
Acacia smallii	48	12.0-14.0	8.0-10.0	3.0-4.0
Acacia stenophylla	15	6.0-7.0	1.5-2.0	0.5-1.0
Acacia stenophylla	24	8.0-10.0	3.0-4.0	1.0-1.5
Acacia stenophylla	36	10.0-12.0	5.0-7.0	1.75-2.5
Acacia stenophylla	48	12.0-15.0	7.0-8.0	3.0-4.0
Acacia willardiana	15	4.0-5.0	1.5-2.5	0.5-1.0
Acacia willardiana	24	5.0-8.0	2.5-3.5	1.0-1.5
Acacia willardiana	36	9.0-11.0	5.0-7.0	2.0-2.5
Albizia julibrissin	15	6.0-8.0	1.5-2.5	0.5-1.0
Albizia julibrissin	24	7.0-9.0	3.0-4.0	1.25-1.75
Albizia julibrissin	36	10.0-12.0	4.0-5.0	2.0-2.5
Bauhinia HongKong	15	5.0-6.0	1.5-2.0	0.75-1.0
Bauhinia HongKong	24	7.0-9.0	2.5-3.0	1.25-1.5
Bauhinia HongKong	36	11.0-13.0	6.0-7.0	2.0-2.5
Bauhinia macranthera	15	2.0-3.0	1.0-2.0	0.5-0.75
Bauhinia macranthera	24	3.0-4.0	2.0-3.0	0.75-1.0
Bauhinia macranthera	36	5.0-6.0	3.0-4.0	1.25-2.0

Bauhinia purpurea	15	5.0-6.0	1.5-2.0	0.75-1.0
Bauhinia purpurea	24	7.0-9.0	2.5-3.0	1.25-1.5
Bauhinia purpurea	36	11.0-13.0	6.0-7.0	2.0-2.5
Bauhinia lunarioides (B. congesta)	15	3.0-4.0	1.5-2.0	0.5-0.75
Bauhinia lunarioides (B. congesta)	24	4.0-5.0	3.0-4.0	0.75-1.0
Caesalpinia mexicana	15	4.0-5.0	2.0-3.0	0.5-1.0
Caesalpinia mexicana	24	5.0-7.0	3.0-4.0	1.0-1.5
Caesalpinia mexicana	36	7.0-8.0	4.0-5.0	1.5-2.0
Caesalpinia cacalaco	15	4.0-5.0	2.0-3.0	0.5-1.0
Caesalpinia cacalaco	24	5.0-8.0	3.0-4.0	1.0-1.5
Caesalpinia cacalaco	36	8.0-10.0	5.0-6.0	1.5-2.0
Callistemon viminalis	15	6.0-7.0	2.0-3.0	0.5-1.0
Callistemon viminalis	24	8.0-9.0	3.0-4.0	1.0-1.5
Celtis reticulata	15	5.0-6.0	2.0-3.0	0.5-1.0
Celtis reticulata	24	6.0-8.0	3.0-4.0	1.0-1.5
Celtis reticulata	36	8.0-10.0	5.0-6.0	1.5-2.0
Cercidium Hybrids	15	4.0-5.0	2.0-3.0	0.75-1.0
Cercidium Hybrids	24	5.0-8.0	3.0-4.0	1.0-1.5
Cercidium Hybrids	36	8.0-10.0	5.0-7.0	1.75-2.25
Cercidium Hybrids	48	10.0-14.0	8.0-10.0	3.0-4.0
Cercidium floridum (Parkinsonia)	15	4.0-5.0	2.0-3.0	0.5-1.0
Cercidium floridum	24	5.0-7.0	3.0-4.0	1.0-1.5
Cercidium floridum	36	8.0-10.0	5.0-6.0	1.75-2.25
Cercidium floridum	48	10.0-12.0	8.0-10.0	2.75-3.75
Cercidium microphyllum (Parkinsonia)	15	2.0-3.0	2.0-3.0	0.5-0.75
Cercidium microphyllum	24	3.0-5.0	3.0-4.0	0.75-1.25
Cercidium microphyllum	36	5.0-8.0	4.0-5.0	1.5-2.0
Cercidium praecox (Parkinsonia)	15	4.0-5.0	1.5-2.5	0.5-1.0
Cercidium praecox	24	5.0-7.0	3.0-4.0	1.0-1.5
Cercidium praecox	36	8.0-9.0	6.0-7.0	1.75-2.25
Cercidium praecox	48	10.0-12.0	10.0-12.0	3.0-4.0
Ceris reniformis 'Oklahoma'	15	4.0-5.0	2.0-3.0	0.5-1.0
Ceris reniformis 'Oklahoma'	24	5.0-7.0	3.0-4.0	1.0-1.5

<i>Ceris reniformis</i> 'Oklahoma'	36	7.0-8.0	4.0-5.0	1.5-2.0
<i>Chamaerops humilis</i>	15	1.5-2.0	1.5-2.0	n/a
<i>Chamaerops humilis</i>	24	2.0-3.0	2.0-3.0	n/a
<i>Chamaerops humilis</i>	36	5.0-6.0	5.0-6.0	n/a
<i>Chilopsis linearis</i> (v. hybrids)	15	4.0-5.0	2.0-3.0	0.5-1.0
<i>Chilopsis linearis</i>	24	5.0-7.0	3.0-4.0	1.0-1.5
<i>Chilopsis linearis</i>	36	8.0-10.0	5.0-7.0	1.75-2.25
<i>Chitalpa</i>	15	4.0-5.0	2.0-3.0	0.75-1.0
<i>Chitalpa</i>	24	6.0-7.0	3.0-4.0	1.0-1.5
<i>Chitalpa</i>	36	8.0-10.0	5.0-7.0	2.0-2.5
<i>Cupressus arizonica</i>	15	5.0-6.0	1.5-2.0	0.5-0.75
<i>Cupressus arizonica</i>	24	6.0-7.0	2.0-3.0	0.75-1.25
<i>Cupressus arizonica</i>	36	7.0-8.0	5.0-6.0	1.75-2.25
<i>Dalbergia sissoo</i>	15	6.0-7.0	2.0-3.0	0.5-0.75
<i>Dalbergia sissoo</i>	24	8.0-9.0	3.0-4.0	1.0-1.5
<i>Dalbergia sissoo</i>	36	10.0-12.0	5.0-7.0	1.75-2.25
<i>Dalbergia sissoo</i>	48	13.0-15.0	7.0-8.0	2.75-3.25
<i>Ebenopsis ebano</i>	15	4.0-5.0	2.0-3.0	0.5-0.75
<i>Ebenopsis ebano</i>	24	5.0-7.0	3.0-4.0	1.0-1.5
<i>Ebenopsis ebano</i>	36	7.0-9.0	5.0-6.0	0.75-2.25
<i>Ebenopsis ebano</i>	48	9.0-11.0	7.0-8.0	3.0-3.5
<i>Eucalyptus microtheca</i>	15	6.0-7.0	2.0-3.0	0.5-1.0
<i>Eucalyptus microtheca</i>	24	8.0-10.0	3.0-4.0	1.0-1.50
<i>Eucalyptus microtheca</i>	36	10.0-12.0	5.0-6.0	1.75-2.25
<i>Eucalyptus rudis</i>	15	6.0-7.0	2.0-3.0	0.5-1.0
<i>Eucalyptus rudis</i>	24	7.0-9.0	3.0-4.0	1.25-1.5
<i>Eucalyptus torquata</i>	15	5.0-6.0	2.0-3.0	0.5-1.0
<i>Eucalyptus torquata</i>	24	7.0-8.0	3.0-4.0	1.0-1.5
<i>Ficus nitida</i>	15	6.0-7.0	1.5-2.0	0.75-1.0
<i>Ficus nitida</i>	24	8.0-9.0	3.0-4.0	1.0- 1.5
<i>Ficus nitida</i>	36	10.0-12.0	5.0-6.0	2.0- 2.5
<i>Ficus nitida</i>	48	13.0-15.0	8.0-9.0	2.75-3.50
<i>Fraxinus v. Fanwest</i>	15	6.0-7.0	1.5-2.0	0.75-1.0

Fraxinus v. Fanwest	24	8.0-9.0	3.0-4.0	1.0-1.5
Fraxinus v. Fanwest	36	9.0-11.0	5.0-7.0	1.75-2.5
Fraxinus v. Fanwest	48	12.0-14.0	7.0-9.0	2.75-3.5
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Fraxinus o. raywoodii	15	6.0-7.0	1.5-2.0	0.5-1.0
Fraxinus o. raywoodii	24	8.0-9.0	2.0-3.0	1.0-1.5
Fraxinus o. raywoodii	36	9.0-10.0	4.0-5.0	1.75-2.5
Fraxinus o. raywoodii	48	12.0-14.0	6.0-7.0	2.75-3.5
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Fraxinus uhdei	15	6.0-7.0	1.5-2.0	0.75-1.0
Fraxinus uhdei	24	8.0-9.0	3.0-4.0	1.0-1.5
Fraxinus uhdei	36	9.0-11.0	5.0-7.0	1.75-2.5
Fraxinus uhdei	48	12.0-14.0	7.0-9.0	2.75-3.5
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Fraxinus velutina	15	6.0-7.0	1.5-2.0	0.75-1.0
Fraxinus velutina	24	8.0-9.0	3.0-4.0	1.0-1.5
Fraxinus velutina	36	9.0-11.0	5.0-7.0	1.75-2.5
Fraxinus velutina	48	12.0-14.0	7.0-9.0	2.75-3.5
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Fraxinus v. fantex	15	6.0-7.0	1.5-2.0	0.75-1.0
Fraxinus v. fantex	24	8.0-9.0	3.0-4.0	1.0-1.5
Fraxinus v. fantex	36	9.0-11.0	5.0-7.0	1.75-2.5
Fraxinus v. fantex	48	12.0-14.0	7.0-9.0	2.75-3.5
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Fraxinus v. modesto	15	6.0-7.0	1.5-2.0	0.75-1.0
Fraxinus v. modesto	24	8.0-9.0	3.0-4.0	1.0-1.5
Fraxinus v. modesto	36	9.0-11.0	5.0-7.0	1.75-2.5
Fraxinus v. modesto	48	12.0-14.0	7.0-9.0	2.75-3.5
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Geijera parviflora	15	4.0-5.0	2.0-3.0	0.5-0.75
Geijera parviflora	24	6.0-7.0	3.0-4.0	1.0-1.25
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Harvardia pallens	15	5.0-6.0	2.0-3.0	0.5-1.0
Harvardia pallens	24	6.0-8.0	3.0-4.0	1.25-1.75
Harvardia pallens	36	9.0-10.0	5.0-7.0	1.75-2.5
Harvardia pallens	48	12.0-14.0	8.0-10.0	3.0-4.0
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Jacaranda mimosifolia	15	6.0-7.0	2.0-3.0	0.5-0.75
Jacaranda mimosifolia	24	7.0-9.0	3.0-4.0	1.0-1.5
Jacaranda mimosifolia	36	10.0-12.0	5.0-6.0	1.75-2.25
Jacaranda mimosifolia	48	13.0-15.0	7.0-8.0	2.75-3.5
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Lysiloma thornberi	15	4.0-5.0	2.0-3.0	0.5-0.75
Lysiloma thornberi	24	5.0-6.0	3.0-4.0	0.75-1.25
Lysiloma thornberi	36	7.0-8.0	5.0-6.0	1.5-2.0

Nerium oleander	15	6.0-7.0	1.5-2.0	0.5-0.75
Nerium oleander	24	8.0-9.0	3.0-4.0	1.0-1.5
Nerium oleander	36	9.0-11.0	5.0-6.0	1.75-2.25
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Pinus canariensis	15	5.0-6.0	1.5-2.0	0.75-1.0
Pinus canariensis	24	7.0-8.0	3.0-4.0	1.5-2.0
Pinus canariensis	36	9.0-11.0	5.0-6.0	2.0-3.0
Pinus canariensis	48	12.0-15.0	6.0-8.0	4.0-5.0
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Pinus eldarica	15	5.0-6.0	2.0-3.0	1.0-1.5
Pinus eldarica	24	7.0-9.0	3.0-4.0	1.5-2.5
Pinus eldarica	36	10.0-12.0	5.0-7.0	3.0-4.0
Pinus eldarica	48	15.0-17.0	9.0-10.0	5.0-6.0
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Pinus halepensis	15	5.0-6.0	2.0-3.0	0.75-1.0
Pinus halepensis	24	7.0-9.0	3.0-4.0	1.5-2.0
Pinus halepensis	36	9.0-11.0	7.0-8.0	2.75-3.5
Pinus halepensis	48	14.0-16.0	9.0-11.0	4.0-5.0
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Pistacia chinensis	15	6.0-7.0	1.5-2.5	0.5-0.75
Pistacia chinensis	24	7.0-9.0	2.5-3.5	1.0-1.5
Pistacia chinensis	36	12.0-14.0	6.0-8.0	3.0-4.0
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Pistacia lentiscus	15	6.0-7.0	1.5-2.5	0.5-0.75
Pistacia lentiscus	24	7.0-9.0	2.5-3.5	1.0-1.5
Pistacia lentiscus	36	9.0-11.0	4.0-5.0	1.75-2.25
Pistacia lentiscus	48	12.0-14.0	6.0-8.0	3.0-4.0
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Pistacia x Red Push	15	6.0-7.0	1.5-2.5	0.5-0.75
Pistacia x Red Push	24	7.0-9.0	2.5-3.5	1.0-1.5
Pistacia x Red Push	36	9.0-11.0	4.0-5.0	1.75-2.25
Pistacia x Red Push	48	12.0-14.0	6.0-8.0	3.0-4.0
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Pithecellobium flexicaule	15	4.0-5.0	2.0-3.0	0.5-0.75
Pithecellobium flexicaule	24	5.0-7.0	3.0-4.0	1.0-1.5
Pithecellobium flexicaule	36	7.0-9.0	5.0-6.0	0.75-2.25
Pithecellobium flexicaule	48	9.0-11.0	7.0-8.0	3.0-3.5
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Platanus mexicana	15	6.0-7.0	2.0-3.0	0.5-0.75
Platanus mexicana	24	8.0-9.0	3.0-4.0	1.0-1.5
Platanus mexicana	36	10.0-12.0	5.0-7.0	1.75-2.25
Platanus mexicana	48	13.0-15.0	7.0-8.0	2.75-3.25
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Platanus wrightii	15	6.0-7.0	2.0-3.0	0.5-0.75
Platanus wrightii	24	8.0-9.0	3.0-4.0	1.0-1.5

Platanus wrightii	36	10.0-12.0	5.0-7.0	1.75-2.25
Platanus wrightii	48	13.0-15.0	7.0-8.0	2.75-3.25
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Prosopis velutina/juliflora	15	4.0-5.0	2.0-3.0	0.5-0.75
Prosopis velutina/juliflora	24	5.0-7.0	3.0-4.0	1.0-1.5
Prosopis velutina/juliflora	36	8.0-10.0	5.0-6.0	1.75-2.5
Prosopis velutina/juliflora	48	10.0-14.0	7.0-9.0	2.75-3.5
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Prosopis hybrid (<i>thornless varieties</i>)	15	4.0-5.0	2.0-3.0	0.5-0.75
Prosopis hybrid (<i>thornless varieties</i>)	24	5.0-7.0	6.0-7.0	1.25-1.5
Prosopis hybrid (<i>thornless varieties</i>)	36	8.0-10.0	7.0-8.0	1.75-2.5
Prosopis hybrid (<i>thornless varieties</i>)	48	10.0-14.0	9.0-11.0	2.75-3.5
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Prosopis glandulosa	15	4.0-5.0	2.0-3.0	0.5-0.75
Prosopis glandulosa	24	5.0-8.0	3.0-4.0	1.0-1.5
Prosopis glandulosa	36	8.0-10.0	6.0-8.0	1.75-2.25
Prosopis glandulosa	48	10.0-12.0	8.0-10.0	2.5-3.5
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Prunus varieties	15	5.0-6.0	2.0-2.5	0.5-0.75
Prunus varieties	24	6.0-8.0	3.0-4.0	1.0-1.5
Prunus varieties	36	8.0-10.0	4.0-6.0	2.0-2.5
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Pyrus calleryana	15	6.0-7.0	1.5-2.0	0.75-1.0
Pyrus calleryana	24	8.0-9.0	3.0-4.0	1.0-1.5
Pyrus calleryana	36	10.0-12.0	6.0-8.0	2.0-2.5
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Pyrus kawakami	15	6.0-7.0	1.5-2.0	0.75-1.0
Pyrus kawakami	24	8.0-9.0	3.0-4.0	1.0-1.5
Pyrus kawakami	36	10.0-12.0	6.0-8.0	2.0-2.5
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Quercus buckleyi (syn. Texana)	15	5.0-7.0	1.5-2.5	0.5-0.75
Quercus buckleyi (syn. Texana)	24	7.0-9.0	3.0-4.0	1.0-1.5
Quercus buckleyi (syn. Texana)	36	10.0-12.0	5.0-7.0	1.75-2.5
Quercus buckleyi (syn. Texana)	48	13.0-15.0	7.0-9.0	2.75-4.0
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Quercus muhlenbergii	15	5.0-7.0	1.5-2.5	0.5-0.75
Quercus muhlenbergii	24	7.0-9.0	3.0-4.0	1.0-1.5
Quercus muhlenbergii	36	10.0-12.0	5.0-7.0	1.75-2.5
Quercus muhlenbergii	48	13.0-15.0	7.0-9.0	2.75-4.0
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Quercus polymorpha	15	5.0-7.0	1.5-2.5	0.5-0.75
Quercus polymorpha	24	7.0-9.0	3.0-4.0	1.0-1.5
Quercus polymorpha	36	10.0-12.0	5.0-7.0	1.75-2.5
Quercus polymorpha	48	13.0-15.0	7.0-9.0	2.75-4.0

Quercus virginiana	15	5.0-7.0	1.5-2.5	0.5-0.75
Quercus vifginiana	24	7.0-9.0	3.0-4.0	1.0-1.5
Quercus virginiana	36	10.0-12.0	5.0-7.0	1.75-2.5
Quercus virginiana	48	13.0-15.0	7.0-9.0	2.75-4.0
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Schinus molle	15	4.0-6.0	2.0-3.0	0.5-0.75
Schinus molle	24	6.0-8.0	4.0-5.0	1.25-1.5
Schinus molle	36	9.0-11.0	6.0-8.0	1.75-2.25
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Schinus terebinthifolia	15	6.0-8.0	2.0-3.0	0.5-1.0
Schinus terebinthifolia	24	8.0-10.0	3.0-4.0	1.25 -1.5
Schinus terebinthifolia	36	10.0-12.0	5.0-7.0	1.75-2.25
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Sophora secundiflora	15	2.0-3.0	1.0-2.0	0.5-0.75
Sophora secundiflora	24	3.0-4.0	2.0-3.0	0.75-1.0
Sophora secundiflora	36	5.0-6.0	3.0-4.0	1.25-2.0
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Tipuana tipu	15	6.0-7.0	2.0-3.0	0.5-0.75
Tipuana tipu	24	7.0-8.0	3.0-4.0	1.0-1.5
Tipuana tipu	36	9.0-11.0	5.0-7.0	1.75-2.25
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Thevetia peruviana	15	6.0-7.0	2.0-3.0	0.50-1.0
Thevetia peruviana	24	7.0-9.0	4.0-5.0	1.0-1.5
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Ulmus parvifolia	15	6.0-7.0	2.0-3.0	0.5-0.75
Ulmus parvifolia	24	7.0-9.0	3.0-4.0	1.0-1.5
Ulmus parvifolia	36	10.0-12.0	6.0-8.0	1.75-2.5
Ulmus parvifolia	48	13.0-15.0	8.0-10.0	2.5-3.5

MULTIPLE TRUNK TREE SPECIFICATIONS

Acacia smallii M (<i>Also for minuta and farmesiana</i>)	15	4.0-5.0	2.0-3.0	
Acacia smallii M	24	6.0-7.0	4.0-5.0	
Acacia smallii M	36	8.0-10.0	6.0-8.0	
Acacia smallii M	48	12.0-14.0	8.0-10.0	
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Albizia julibrissin M	15	5.0-6.0	2.0-3.0	
Albizia julibrissin M	24	6.0-7.0	4.0-5.0	
Albizia julibrissin M	36	8.0-9.0	5.0-6.0	
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Bauhinia HongKong M	15	5.0-6.0	2.0-3.0	
Bauhinia HongKong M	24	6.0-8.0	3.0-4.0	

Bauhinia HongKong M	36	8.0-10.0	5.0-7.0
Bauhinia lunarioides M	15	3.0-4.0	1.5-2.0
Bauhinia lunarioides M	24	4.0-5.0	3.0-4.0
Bauhinia purpurea M	15	5.0-6.0	2.0-3.0
Bauhinia purpurea M	24	6.0-8.0	3.0-4.0
Bauhinia purpurea M	36	8.0-10.0	5.0-7.0
Caesalpinia mexicana M	15	4.0-5.0	2.0-3.0
Caesalpinia mexicana M	24	5.0-7.0	3.0-4.0
Caesalpinia mexicana M	36	7.0-8.0	4.0-5.0
Caesalpinia cacalaco M	15	4.0-5.0	2.0-3.0
Caesalpinia cacalaco M	24	5.0-7.0	3.0-4.0
Caesalpinia cacalaco M	36	8.0-10.0	5.0-6.0
Caesalpinia paraguariensis M	15	4.0-5.0	2.0-3.0
Caesalpinia paraguariensis M	24	5.0-7.0	3.0-4.0
Caesalpinia paraguariensis M	36	8.0-10.0	5.0-6.0
Cercidium Hybrids M (Parkinsonia)	15	4.0-5.0	2.0-3.0
Cercidium Hybrids M	24	5.0-8.0	3.0-4.0
Cercidium Hybrids M	36	8.0-10.0	5.0-7.0
Cercidium Hybrids M	48	10.0-14.0	8.0-10.0
Cercidium floridum M (Parkinsonia)	15	3.0-4.0	2.0-3.0
Cercidium floridum M	24	5.0-7.0	3.0-4.0
Cercidium floridum M	36	7.0-9.0	6.0-8.0
Cercidium floridum M	48	10.0-13.0	10.0-12.0
Cercidium microphyllum M (Parkinsonia)	15	2.0-3.0	2.0-3.0
Cercidium microphyllum M	24	3.0-5.0	3.0-4.0
Cercidium microphyllum M	36	5.0-8.0	4.0-5.0
Cercidium praecox M	15	4.0-5.0	1.5-2.5
Cercidium praecox M	24	5.0-7.0	3.0-4.0
Cercidium praecox M	36	8.0-9.0	6.0-7.0
Cercidium praecox M	48	10.0-12.0	8.0-10.0
Chilopsis linearis M (v. hybrids)	15	4.0-5.0	2.0-3.0
Chilopsis linearis M	24	5.0-7.0	3.0-4.0
Chilopsis linearis M	36	7.0-9.0	5.0-7.0

Chitalpa M	15	4.0-5.0	2.0-3.0
Chitalpa M	24	6.0-7.0	3.0-4.0
Chitalpa M	36	8.0-10.0	5.0-7.0
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Ficus nitida M	15	5.0-6.0	2.0-3.0
Ficus nitida M	24	7.0-8.0	3.0-4.0
Ficus nitida M	36	9.0-11.0	6.0-7.0
Ficus nitida M	48	12.0-14.0	8.0-9.0
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Jacaranda acutifolia M	15	5.0-6.0	2.0-3.0
Jacaranda acutifolia M	24	6.0-8.0	3.0-4.0
Jacaranda acutifolia M	36	9.0-11.0	6.0-7.0
Jacaranda acutifolia M	48	13.0-15.0	8.0-10.0
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Lysiloma thornberi M	15	4.0-5.0	2.0-3.0
Lysiloma thornberi M	24	5.0-6.0	3.0-4.0
Lysiloma thornberi M	36	7.0-8.0	5.0-6.0
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Olea europaea hybrids M	15	4.0-5.0	2.0-3.0
Olea europaea hybrids M	24	6.0-8.0	3.0-5.0
Olea europaea hybrids M	36	8.0-10.0	5.0-7.0
Olea europaea hybrids M	48	10.0-12.0	8.0-10.0
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Olneya tesota M	15	2.5-3.5	2.0-3.0
Olneya tesota M	24	4.0-6.0	2.5-3.5
Olneya tesota M	36	7.0-8.0	5.0-6.0
Olneya tesota M	48	8.0-10.0	7.0-9.0
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Pistacia Lentiscus M	15	5.0-6.0	1.5-2.0
Pistacia Lentiscus M	24	6.0-7.0	2.0-3.0
Pistacia Lentiscus M	36	7.0-8.0	5.0-6.0
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Pithecellubium flexicaule M	15	3.0-4.0	2.0-3.0
Pithecellubium flexicaule M	24	4.0-6.0	3.0-4.0
Pithecellubium flexicaule M	36	7.0-9.0	5.0-6.0
Pithecellubium flexicaule M	48	9.0-11.0	7.0-9.0
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Prosopis velutina/juliflora M	15	4.0-5.0	2.0-3.0
Prosopis velutina/juliflora M	24	5.0-6.5	3.0-4.0
Prosopis velutina/juliflora M	36	8.0-10.0	5.0-7.0
Prosopis velutina/juliflora M	48	10.0-13.0	7.0-9.0
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Prosopis hybrid M	15	4.0-5.0	2.0-3.0
Prosopis hybrid M	24	5.0-7.0	4.0-6.0
Prosopis hybrid M	36	8.0-10.0	6.0-8.0
Prosopis hybrid M	48	10.0-12.0	9.0-11.0

Prosopis glandulosa M	15	4.0-5.0	2.0-3.0
Prosopis glandulosa M	24	5.0-8.0	3.0-4.0
Prosopis glandulosa M	36	8.0-10.0	5.0-6.0
Prosopis glandulosa M	48	10.0-12.0	9.0-11.0

Sophora secundiflora M	15	1.5-2.5	1.0-2.0
Sophora secundiflora M	24	2.5-4.0	2.0-3.0
Sophora secundiflora M	36	5.0-6.0	3.0-4.0

Thevetia peruviana M	15	4.0-5.0	2.0-3.0
Thevetia peruviana M	24	5.0-7.0	3.0-4.0

Vitex angus-castus M	15	4.0-5.0	2.0-3.0
Vitex angus-castus M	24	5.0-7.0	3.0-4.0
Vitex angus-castus M	36	7.0-9.0	5.0-7.0

FOR FURTHER INFORMATION
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