Arizona Nursery Association
Where Growing Businesses Can Thrive

ANA Container Grown Tree Guide & Market Update

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ANA Executive Director & Past President

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Container Grown Tree Guide Revision Process

- Committee of Grower Members formed
- Review of current document
- Recommendations for changes

Tree Production

Trees are not “widgets”

Quality Conscious Growers

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NOT Regulatory Specifications

"Caliper Only Impact"

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Information Included

- Bigger is Not Necessarily Better
- How to purchase a container grown tree
- How to Measure Caliper
- Multi vs Standard

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Revisions

- Some species deleted
- Some species added
- Ranges kept
- Containers not yet added

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.

BOTANICAL NAME	BOX SIZE	HEIGHT (in feet)	WIDTH (in feet)	CALIPER (in inches)
Cercidium Hybrids	15	4.0-6.0	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 (Parkensonia)	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 (Parkensonia)	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 (Parkensonia)	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
Ceris reniformis 'Oklahoma'	36	7.0-8.0	4.0-5.0	1.5-2.0
Chamaerops humilis	15	1.5-2.0	1.5-2.0	n/a
Chamaerops humilis	24	2.0-3.0	2.0-3.0	n/a
Chamaerops humilis	36	5.0-6.0	5.0-6.0	n/a
Chilopsis linearis (v. hybrids)	15	4.0-5.0	2.0-3.0	0.5-1.0
Chilopsis linearis	24	5.0-7.0	3.0-4.0	1.0-1.5
Chilopsis linearis	36	8.0-10.0	5.0-7.0	1.75-2.25
Chitalpa	15	4.0-5.0	2.0-3.0	0.75-1.0
Chitalpa	24	6.0-7.0	3.0-4.0	1.0-1.5
Chitalpa	36	8.0-10.0	5.0-7.0	2.0-2.5
Cupressus arizonica	15	5.0-6.0	1.5-2.0	0.5-0.75
Cupressus arizonica	24	6.0-7.0	2.0-3.0	0.75-1.25
Cupressus arizonica	36	7.0-8.0	5.0-6.0	1.75-2.25
Dalbergia sissoo	15	6.0-7.0	2.0-3.0	0.5-0.75
Dalbergia sissoo	24	8.0-9.0	3.0-4.0	1.0-1.5
Dalbergia sissoo	36	10.0-12.0	5.0-7.0	1.75-2.25
Dalbergia sissoo	48	13.0-15.0	7.0-8.0	2.75-3.25
Ebenopsis ebano	15	4.0-5.0	2.0-3.0	0.5-0.75
Ebenopsis ebano	24	5.0-7.0	3.0-4.0	1.0-1.5
Ebenopsis ebano	36	7.0-9.0	5.0-6.0	0.75-2.25
Ebenopsis ebano	48	9.0-11.0	7.0-8.0	3.0-3.5
Eucalyptus microtheca	15	6.0-7.0	2.0-3.0	0.5-1.0
Eucalyptus microtheca	24	8.0-10.0	3.0-4.0	1.0-1.50
Eucalyptus microtheca	36	10.0-12.0	5.0-6.0	1.75-2.25

BOTANICAL NAME	BOX SIZE	HEIGHT (in feet)	WIDTH (in feet)	CALIPER (in inches)
Eucalyptus rudis	15	6.0-7.0	2.0-3.0	0.5-1.0
Eucalyptus rudis	24	7.0-9.0	3.0-4.0	1.25-1.5
Eucalyptus torquata	15	5.0-6.0	2.0-3.0	0.5-1.0
Eucalyptus torquata	24	7.0-8.0	3.0-4.0	1.0-1.5
Ficus nitida	15	6.0-7.0	1.5-2.0	0.75-1.0
Ficus nitida	24	8.0-9.0	3.0-4.0	1.0- 1.5
Ficus nitida	36	10.0-12.0	5.0-6.0	2.0- 2.5
Ficus nitida	48	13.0-15.0	8.0-9.0	2.75-3.50
Fraxinus v. Fanwest	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
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
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
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
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
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
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
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

BOTANICAL NAME	BOX SIZE	HEIGHT (in feet)	WIDTH (in feet)	CALIPER (in inches)
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
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
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
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
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
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 LISTING

Acacia smallii M *(Also for minuta and farnesiana)*	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
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
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

BOTANICAL NAME	BOX SIZE	HEIGHT (in feet)	WIDTH (in feet)
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	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	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	7.0-8.0	6.0-8.0
Cercidium floridum M	48	10.0-13.0	10.0-12.0
Cercidium microphyllum M	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
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
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
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
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

Market Update

Bart Worthington, Mountain States Wholesale Nursery
ANA Past President

Quest for Quality

Quality - Perception vs. Reality

Quality vs. “Value”

Consumer Education

Industry Trends

Growing containers

New Selections

What’s Hot What’s Not

Small Trees

Native Trees

Flowering Trees

Available at:

www.azna.org