

Errata for **Urban Tree Database and Allometric Equations**

Citation: McPherson, E. Gregory; van Doorn, Natalie S.; Peper, Paula J. 2016. Urban Tree Database and Allometric Equations. Gen. Tech. Rep. PSW-GTR-253. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 86 p.

Changes to page 15:

In Figure 9, the southern tip of Florida should be color-coded pink as it is in the Tropical climate zone.

Changes on page 24:

Explanation: Equations for models named log-logw2, log-logw3, log-logw4, expow2, expow3, and expow4 should have a multiplier ***(mse/2)** instead of **+ (mse/2)**. The corrected Table 3 is below and corrections are highlighted.

Table 3—Excel-formatted equations for predicting open-grown tree growth parameters

Model name	Equation
lin	$a+b * \text{age or dbh}$
quad	$a+b * x+c * x^2$
cub	$a+b * x+c * x^2 + d * x^3$
quart	$a+b * x+c * x^2 + d * x^3 + e * x^4$
loglogw1	$\text{EXP}(a+b*\text{LN}(\text{LN}(\text{age or dbh}+1) + (\text{mse}/2)))$
loglogw2	$\text{EXP}(a+b*\text{LN}(\text{LN}(\text{age or dbh}+1))+(\text{SQRT}(\text{age or dbh})*(\text{mse}/2)))$
loglogw3	$\text{EXP}(a+b*\text{LN}(\text{LN}(\text{age or dbh}+1))+(\text{age or dbh})*(\text{mse}/2))$
loglogw4	$\text{EXP}(a+b*\text{LN}(\text{LN}(\text{age or dbh}+1))+(\text{age}^2 \text{ or dbh}^2)*(\text{mse}/2))$
expow1	$\text{EXP}(a+ b*(\text{age or dbh}) + (\text{mse}/2))$
expow2	$\text{EXP}(a+b*(\text{age or dbh})+\text{SQRT}(\text{age or dbh})*(\text{mse}/2))$
expow3	$\text{EXP}(a+b*(\text{age or dbh})+(\text{age or dbh})*(\text{mse}/2))$
expow4	$\text{EXP}(a+b*(\text{age or dbh})+(\text{age}^2 \text{ or dbh}^2)*(\text{mse}/2))$

Changes for page 43:

In a subset of Table 5 (climate zone: Northeast), the Scientific Name did not align with the common name.

Change from:

Scientific name	Common name	SpCode	Samples
<i>Pyrus calleryana</i> Decne.	Kwanzan cherry	PRSE2	34
<i>Quercus palustris</i> Münchh.	Callery pear	PYCA	33
<i>Quercus phellos</i> L.	pin oak	QUPA	54
<i>Quercus rubra</i> L.	willow oak	QUPH	33
<i>Tilia cordata</i> Mill.	northern red oak	QURU	51
<i>Tilia tomentosa</i> Moench	littleleaf linden	TICO	48
<i>Ulmus americana</i> L.	silver linden	TITO	30
<i>Zelkova serrata</i> (Thunb.) Makino	American elm	ULAM	40
<i>Acer platanoides</i> L.	Japanese zelkova	ZESE	34

To:

Scientific name	Common name	SpCode	Samples
<i>Prunus serrulata</i> Lindl.	Kwanzan cherry	PRSE2	34
<i>Pyrus calleryana</i> Decne.	Callery pear	PYCA	33
<i>Quercus palustris</i> Münchh.	pin oak	QUPA	54
<i>Quercus phellos</i> L.	willow oak	QUPH	33
<i>Quercus rubra</i> L.	northern red oak	QURU	51
<i>Tilia cordata</i> Mill.	littleleaf linden	TICO	48
<i>Tilia tomentosa</i> Moench	silver linden	TITO	30
<i>Ulmus americana</i> L.	American elm	ULAM	40
<i>Zelkova serrata</i> (Thunb.) Makino	Japanese zelkova	ZESE	34

Changes to pages 44 & 49:

Changed the scientific name for Modesto Ash from *Fraxinus velutina* Torr. to *Fraxinus velutina* 'Modesto' Torr.

Change from:

Scientific name	Common name	SpCode	Samples
<i>Fraxinus velutina</i> Torr.	Modesto ash	FRVE_G	28

To:

Scientific name	Common name	SpCode	Samples
<i>Fraxinus velutina</i> 'Modesto' Torr.	Modesto ash	FRVE_G	28

Changes to page 57, Table 6:

The species code for Modesto ash was changed from "FRVE" to "FRVE_G".

Change from:

Region	SpCode	Avg dw/fw (g)	dw/fw SD	Avg dw g/m2	dw g/m2 SD	No.
InlEmp	FRVE	0.53		144.64		20

To:

Region	SpCode	Avg dw/fw (g)	dw/fw SD	Avg dw g/m2	dw g/m2 SD	No.
InlEmp	FRVE_G	0.53		144.64		20

Changes to page 60:

The species code for Modesto ash was changed from "FRVE" to "FRVE_G"

Change from:

Region	SpCode	Avg dw/fw (g)	dw/fw SD	Avg dw g/m2	dw g/m2 SD	No.
NoCalC	FRVE	0.60	0.05	184.02	18.19	10

To:

Region	SpCode	Avg dw/fw (g)	dw/fw SD	Avg dw g/m2	dw g/m2 SD	No.
NoCalC	FRVE_G	0.60	0.05	184.02	18.19	10

Changes to page 61:

The species code for Modesto ash was changed from “FRVE” to “FRVE_G”

Change from:

Region	SpCode	Avg dw/fw (g)	dw/fw SD	Avg dw g/m2	dw g/m2 SD	No.
SWDsrt	FRVE	0.44	0.02	120.11	13.48	10

To:

Region	SpCode	Avg dw/fw (g)	dw/fw SD	Avg dw g/m2	dw g/m2 SD	No.
SWDsrt	FRVE_G	0.44	0.02	120.11	13.48	10

Changes to page 68:

One variable in the equation for estimating d.b.h for *Liquidambar styraciflua* in NoCalC should be negative.

Change from:

$$\begin{aligned} \text{d.b.h. (Liquidambar styraciflua in NoCalC)} &= a + b \times \text{age} + c \times \text{age}^2 \\ \text{d.b.h.} &= 2.80359 + 1.29151 \times 33 + 0.00299 \times (33)^2 = 42.2 \text{ cm} \end{aligned}$$

To:

$$\text{d.b.h.} = 2.80359 + 1.29151 \times 33 + (-0.00299) \times (33)^2 = 42.2 \text{ cm}$$

Step 3 should refer to equation form “quad”.

Change from:

Step 3. Calculate crown diameter (cdia) from d.b.h. by looking up the equation name and coefficients in table S5 and equation form (cubic) in table 3:

To:

Step 3. Calculate crown diameter (cdia) from d.b.h. by looking up the equation name and coefficients in table S5 and equation form (**quad**) in table 3:

Changes to page 69:

Change from:

Complete listings of equations are available in tables 9 and 10 (downloadable as tables S6 and S7).

To:

Complete listings of equations are available in tables 9 and 10 (downloadable as **tables S7 and S8**).

Changes to pages 71 and 72:

The reference for dry-weight density factor should be Jenkins et al. (2004).

Change from:

d Look up the dry-weight density factor in McHale et al. (2009) first, but if not available, then look it up in the Global Wood Density Database (Zeng 2003).

To:

d Look up the dry-weight density factor in **Jenkins et al. (2004)** first, but if not available, then look it up in the Global Wood Density Database (Zeng 2003).