



INDEX

Arboriculture & Urban Forestry Volume 35, 2009

- acephate**
treatment for red elm bark weevil, 148
- Acer spp. (maple)**
sapsucker damage, 20
trunk decay, 94
withholding irrigation during establishment, 241
- aeration**
beneath pavement, 135
- Allen, Brenda *see* Zhang, Yaoqi
- allometry**
between stems and branches, 311
- Alvey, Alexis A. (and P.E. Wiseman and B. Kane), Efficacy of conventional tree stabilization systems and their effect on short-term tree development, 157
- Amoroso, Gabriele *see* Fini, Alessio
- anchoring**
and short-term tree development, 157
- Appel, David N. *see* Martínez-Trinidad, Tomás
- apple scab**
calcium sprays for, 263
- Arnold, Michael A. *see* Martínez-Trinidad, Tomás
- Arnold, Michael A. (and G.V. McDonald), Groundcovers, organic and inorganic mulches, and masonry surfaces differentially affect establishment and root zone characteristics of urban trees, 232
- Australia**
imidacloprid for treatment of eucalypt pest, 191
- Autio, Wesley *see* Kane, Brian
- Barden, Charles J. *see* Geyer, Wayne A.
- bark weevil, red elm**, 148
- Bartel, Charles *see* Escobedo, Francisco J.
- Bartimote-Aufflick, Kathryn *see* Noack, Ann E.
- Bassuk, Nina *see* Grabosky, Jason
- Bateman, Amy M. *see* Hartman, John R.
- Bates, Ricky M. *see* Hoover, Benjamin
- Biobarrier**, 23
- biomechanics**
rigging operations, 68
of stem/branch form, 311
- biostimulants**
factors affecting transplant survival, 10
- birds**
diversity and forest functionality, 80
sapsucker damage to sugar maple, 20
- bitrex**, 20
- Bond, Jerry *see* Escobedo, Francisco J.
- book reviews**
Trees in Towns II, 111
- Booth, Donald C. *see* Smiley, E. Thomas
- Booth, Michael (and D. Johnson), Pressurized-canister trunk injection of acephate, and changes in abundance of red elm bark weevil (*Magdalis armicollis*) on American elm (*Ulmus americana*), 148
- Bottoni, Luciana *see* Sanesi, Giovanni
- Brena, Sergio *see* Kane, Brian
- Buchan, Graeme D. *see* Morgenroth, Justin
- Byer, Michael *see* Stalter, Richard
- Cabrera, Raul I., Revisiting the salinity tolerance of crapemyrtles (*Lagerstroemia* spp.), 129
- calcium**
sprays for apple scab, 263
- carabiniers**
residual strength of, 75
- carbohydrates**
injections in live oaks, 142
- Celtis spp. (hackberry)**
fertilizer in container-grown, 252
- chemical defenses, plant**, 210
- Cloyes, Mac *see* Kane, Brian
- coconut palm**
effects of pruning on health, 294
- codominant stems**
in oak, 281
- communications**
city trees and Wi-Fi networks, 202
- community values**, 33
- concrete**
soil moisture and aeration beneath, 135
- container-grown trees**
fertilizer uptake, partitioning, and recovery, 252
- coral tree (Erythina spp.)**
systemic treatment of gall wasp, 173
- crapemyrtle (Lagerstroemia spp.)**
salinity tolerance, 129
- Dahle, Gregory A. (and J.C. Grabosky), Review of literature on the function and allometric relationships of tree stems and branches, 311
- Day, Susan D. (and G. Watson, P.E. Wiseman, and J.R. Harris), Causes and consequences of deep structural roots in urban trees: From nursery production to landscape establishment, 182
- decay**
fungi detection, 14
trunk decay in maple, 94
- DeepRoot**, 23
- deer**
use of rights-of-way, 47
- diseases**
residents' perceptions, 87
- Doccola, Joseph J. (and S.L. Smith, B.L. Strom, A.C. Medeiros, and E. von Allmen), Systemically applied insecticides for treatment of erythrina gall wasp, *Quadrastichus erythrinae* Kim (Hymenoptera: Eulophidae), 173
- drought resistance**
oak seedling growth and water use, 113
- Dutilleul, Pierre *see* Jutras, Pierre
- electric transmission rights-of-way**
deer use of, 47
- electricity**
influence of shade on consumption, 196
- elm (Ulmus spp.)**
treatment for red elm bark weevil, 148
- emamectin benzoate**
systemic treatment of gall wasp, 173
- energy**
influence of shade on electricity consumption, 196

environmental psychology

residents' perceptions of tree diseases, 87

***Erythrina* spp. (coral tree)**

systemic treatment of gall wasp, 173
Escobedo, Francisco J. (and C.J. Luley, J. Bond, C. Staudhammer, and C. Bartel), Hurricane debris and damage assessment for Florida urban forests, 100

establishment

factors affecting transplant survival, 10

***Eucalyptus* spp.**

imidacloprid for treatment of eucalypt pest, 191

Ferrini, Francesco (and A. Fini, P. Frangi, and G. Amoroso), Mulching of ornamental trees: Effects on growth and physiology. *see also* Fini, Alessio; Struve, Daniel K.

fertilizer and fertilization

container-grown hackberry, 252

***Ficus* spp. (fig)**

evaluation of circular root barriers, 41

fig (*Ficus* spp.)

evaluation of circular root barriers, 41

Fini, Alessio (and F. Ferrini, P. Frangi, G. Amoroso, and R. Piatti), Withholding irrigation during the establishment phase affected growth and physiology of Norway maple (*Acer platanoides*) and linden (*Tilia* spp.), 241. *see also* Struve, Daniel K.

Florida

hurricane debris and damage assessment, 100

Flowers, Jennifer L. *see* Hartman, John R.

forests and forestry

birds as indicator of functionality, 80
practices in western U.S., 122

Fraedrich, Bruce R. *see* Smiley, E. Thomas

Frangi, Piero *see* Fini, Alessio
Freilicher, Mollie *see* Kane, Brian

fungi

biomolecular detection method, 14
tip blight on Austrian pine, 27

fungicides

reducing inputs using sprays, 263

Garbelotto, Matteo M. *see* Nicolotti, Giovanni

Gardner, David S. *see* Rathjens, Richard G.

Geotextile, 23

Geyer, Wayne A. (and K.D. Lynch and C.J. Barden), Eastern redcedar seed source test in western Kansas, 107

Gilman, Edward F. (and J. Grabosky), Growth partitioning three years following structural pruning of *Quercus virginiana*, 281

glucose

partitioning in live oak, 63

Gonthier, Paolo *see* Nicolotti, Giovanni
Grabosky, Jason (and E. Haffner and N. Bassuk), Plant available moisture in stone-soil media for use under pavement while allowing urban tree root growth, 271

Grabosky, Jason (and N. Bassuk), Sixth- and tenth-year growth measurements for three tree species in a load-bearing stone-soil blend under pavement and a tree lawn in Brooklyn, New York, U.S.. *see also* Dahle, Gregory A.; Gilman, Edward F.

Greenfield, Eric J. *see* Luley, Christopher J.

greenspaces

residents' perceptions of tree diseases, 87

groundcovers

effect on root zone and tree establishment, 232

Guglielmo, Fabio *see* Nicolotti, Giovanni

guying

and short-term tree development, 157

hackberry (*Celtis* spp.)

fertilizer in container-grown, 252

Haffner, Edward *see* Grabosky, Jason

handsaws

damage to climbing ropes, 305

Harper, Richard W. *see* Weston, Paul A.
Harris, J. Roger *see* Day, Susan D.

Hartman, John R. (and L.J. Vaillancourt, J.L. Flowers, and A.M. Bateman), Managing diplodia tip blight of landscape Austrian pines, 27

Haynes, Ian *see* Percival, Glynn C.

hazard trees

trunk decay in maple, 94

hemlock (*Tsuga* spp.)

challenging with adelgid ovisacs, 1
potential for replacing with species from western North America, Asia, 5

hemlock wooly adelgid

challenging Chinese hemlock, 1
potential for replacing eastern hemlock with species from western North America, Asia, 5

Hodel, Donald *see* Pittenger, Dennis

Holmes, Liza *see* Smiley, E. Thomas

Hoover, Benjamin (and R.M. Bates, J.C. Sellmer, and G.A. Hoover), Challenging Chinese hemlock (*Tsuga chinensis*) with hemlock wooly adelgid (*Adelges tsugae*) ovisacs, 1

Hoover, Gregory A. *see* Hoover, Benjamin

hurricanes

debris and damage assessment, 100

imidacloprid

systemic treatment of gall wasp, 173
for treatment of eucalypt pest, 191

insecticides

imidacloprid, 173, 191

integrated pest management

challenging Chinese hemlock with adelgid ovisacs, 1

invasive plants

control of woody, 152

irrigation, 129

during establishment phase, 241

Italy

avian diversity and forest functionality, 80

Jamaica Bay Wildlife Refuge, 152

Johnson, Dan *see* Booth, Michael
Jull, L.G. *see* Werner, L.P.

juniper (*Juniperus* spp.)

eastern redcedar seed source, 107

***Juniperus* spp. (juniper)**

eastern redcedar seed source, 107

Jutras, Pierre (and S.O. Prasher and P. Dutilleul), Identification of significant street tree inventory parameters using multivariate statistical analyses, 53

Kaapro, Jyri *see* Noack, Ann E.

Kane, Brian (and H.D. Ryan), Residual strength of carabiners used by tree climbers, 75

Kane, Brian (and M. Cloyes, M. Freilicher, and H.D. Ryan), Damage inflicted on climbing ropes by handsaws, 305

Kane, Brian (and S. Brena and W. Autio), Forces and stresses generated during rigging operations, 68. *see also* Alvey, Alexis A.

Kincaid, Dwight *see* Stalter, Richard
Kuhns, Michael R. (and D.K. Reiter), Tree care and topping beliefs, knowledge, and practices in six western U.S. cities, 122

Laband, David N. (and J.P. Sophocleus), An experimental analysis of the impact of tree shade on electricity consumption, 196

Lacan, Igor (and J.R. McBride), City trees and municipal Wi-Fi networks: Compatibility or conflict?, 202

Lafortezza, Raffaele *see* Sanesi, Giovanni

***Lagerstroemia* spp. (crapemyrtle)**

salinity tolerance, 129

Letson, Neil *see* Zhang, Yaoqi

linden (*Tilia* spp.)

withholding irrigation during establishment, 241

- Liquidambar spp. (sweetgum)**
 evaluation of circular root barriers, 41
 Lloyd, John E. *see* Lugo-Perez, Javier
 Lombardini, Leonardo *see* Martínez-Trinidad, Tomás
 Lorenzini, Giacomo *see* Nali, Cristina
 Lorusso, Leonardo *see* Sanesi, Giovanni
 Lugo-Perez, Javier (and J.E. Lloyd),
 Ecological implications of organic mulches in arboriculture: A mechanistic pathway connecting the use of organic mulches with tree chemical defenses, 210
 Luley, Christopher J. (and D.J. Nowak and E.J. Greenfield), Frequency and severity of trunk decay in street tree maples in four New York cities, 94. *see also* Escobedo, Francisco J.
 Lynch, Keith D. *see* Geyer, Wayne A.
- malls, strip, 33**
- Mansfield, Sarah *see* Noack, Ann E.
- maple (Acer spp.)**
 sapsucker damage, 20
 trunk decay, 94
 withholding irrigation during establishment, 241
- Martínez-Trinidad, Tomás (and W.T. Watson, M.A. Arnold, and L. Lombardini), Temporal and spatial glucose and starch partitioning in live oak, 63
- Martínez-Trinidad, Tomás (and W.T. Watson, M.A. Arnold, L. Lombardini, and D.N. Appel), Carbohydrate injections as a potential option to improve growth and vitality of live oaks, 142
- McBride, Joe R. *see* Lacan, Igor
 McDonald, Garry V. *see* Arnold, Michael A.
 Medeiros, Arthur C. *see* Doccola, Joseph J.
- methyl anthranilate, 20**
- models**
 allometry and stem/branch form, 311
 tree inventory parameters, 53
- Morgenroth, Justin (and G.D. Buchan), Soil moisture and aeration beneath pervious and impervious pavements, 135
- mulches**
 effect on root zone and tree establishment, 232
 and tree chemical defenses, 210
- Nali, Cristina (and G. Lorenzini), Residents' perception of tree diseases in the urban environment, 87
- New York**
 control of woody invasive plants, 152
 trunk decay in maple, 94
- Nicolotti, Giovanni (and P. Gonthier, F. Guglielmo, and M.M. Garbelotto), A biomolecular method for the detection of wood decay fungi: A focus on tree stability assessment, 14
- nitrogen**
 and use of organic mulches, 210
- Noack, Ann E. (and J. Kaapro, K. Bartimote-Aufflick, S. Mansfield, and H.A. Rose), Efficacy of imidacloprid in the control of *Thaumastocoris peregrinus* on *Eucalyptus scoparia* in Sydney, Australia, 191
- nonnative plants**
 control of woody invasive, 152
- Nowak, David J. *see* Luley, Christopher J.
- oak (Quercus spp.)**
 carbohydrate injections, 142
 glucose and starch partitioning, 63
 growth partitioning after pruning, 281
 seedling growth and water use, 113
- ordinances**
 as public policy, 165
- organic matter**
 impacts on soil, tree, and environmental properties, 221
- paclobutrazol**
 for growth suppression of landscape shrubs, 300
- Padoa-Schioppa, Emilio *see* Sanesi, Giovanni
- palms**
 effects of pruning on health, 294
- pavement**
 effect on root zone and tree establishment, 232
 soil moisture and aeration beneath, 135
 stone-soil media beneath, 271
- Pennati, Laura *see* Struve, Daniel K.
 Percival, Glynn C. (and I. Haynes), The influence of calcium sprays to reduce fungicide inputs against apple scab (*Venturia inaequalis* (Cooke) G. Wint.), 263
- permeability**
 soil moisture and aeration beneath pavement, 135
- Piatti, Riccardo *see* Fini, Alessio
- pine (Pinus spp.)**
 tip blight on Austrian pine, 27
- Pinus spp. (pine)**
 tip blight on Austrian pine, 27
- Pittenger, Dennis (and D. Hodel), Six-year evaluation of circular root barriers on two tree species, 41
- planting depth**
 root crown excavation in deeply-planted trees, 287
- planting practices in western U.S., 122**
 Prasher, Shiv O. *see* Jutras, Pierre
- pruning**
 allometry and biomechanics, 311
 effects on health of palms, 294
 growth partitioning in oak after structural pruning, 281
 hurricane debris and damage assessment, 100
 paclobutrazol for growth suppression of shrubs, 300
 practices in western U.S., 122
- public policies**
 tree ordinances, 165
- Quercus spp. (oak)**
 carbohydrate injections, 142
 glucose and starch partitioning, 63
 growth partitioning after pruning, 281
 seedling growth and water use, 113
- Rathjens, Richard G. (and T.D. Sydnor and D.S. Gardner), Evaluating root crown excavation as a treatment for deeply-planted landscape trees, 287
- Reiter, D.K. *see* Kuhns, Michael R.
- repellent sprays**
 for sapsucker on sugar maple, 20
- rigging**
 generated forces and stresses, 68
- rights-of-way**
 deer use of, 47
- roads**
 soil moisture and aeration beneath, 135
- root barriers**
 circular, 41
 root growth near, 23
- roots**
 deep structural roots, 182
 effect of groundcovers, mulches, and masonry surfaces, 232
 growth and circular barriers, 41
 growth beneath stone-soil media beneath pavement, 271
 growth near vertical barriers, 23
 root crown excavation, 287
- ropes**
 handsaw damage to, 305
- Rose, Harley A. *see* Noack, Ann E.
 Rosenfeld, Eric, Effects of pruning on the health of palms, 294
- Ryan, H. Dennis *see* Kane, Brian
- salinity tolerance**
 salinity tolerance of crapemyrtle, 129
- Sanesi, Giovanni (and E. Padoa-Schioppa, L. Lorusso, L. Bottoni, and R. Laforzezza), Avian ecological diversity as an indicator of urban forest functionality. Results from two case studies in northern and southern Italy, 80

- Scharenbroch, Bryant C., A meta-analysis of studies published in *Arboriculture & Urban Forestry* relating to organic materials and impacts on soil, tree, and environmental properties, 221
- seed sources**
eastern redcedar seed source, 107
- seedlings**
growth and water use, 113
- Sellmer, James C. *see* Hoover, Benjamin
- shade**
and electricity consumption, 196
- shrubs**
paclobutrazol for growth suppression, 300
- Sibley, Jeff L. *see* Zhang, Yaoqi
- sidewalks**
root growth near vertical barriers, 23
soil moisture and aeration beneath, 135
- Smiley, E. Thomas (and D.C. Booth and L. Wilkinson), Sprays ineffective for preventing sapsucker damage on sugar maple (*Acer saccharum*), 20
- Smiley, E. Thomas (and L. Holmes and B.R. Fraedrich), Paclobutrazol foliar sprays to suppress growth on landscape shrubs, 300
- Smiley, E. Thomas (and L. Wilkinson and B.R. Fraedrich), Root growth near vertical root barriers after seven years, 23
- Smith, Sheri L. *see* Doccola, Joseph J.
- soil moisture**
beneath pavement, 135
beneath stone-soil media beneath pavement, 271
- soil organic matter**
impact of organic materials, 221
- Sophocleus, John P. *see* Laband, David N.
- Spin Out**, 23
- stabilization systems**
and short-term tree development, 157
- staking**
and short-term tree development, 157
- Stalter, Richard (and D. Kincaid and M. Byer), Control of nonnative invasive woody plant species at Jamaica Bay Wildlife Refuge, New York City, 152
- starch partitioning**, 63
- Staudhammer, Christina *see* Escobedo, Francisco J.
- storms**
debris and damage assessment, 100
- street trees**
inventory parameters, 53
trunk decay in maple, 94
- Strom, Brian L. *see* Doccola, Joseph J.
- Struve, Daniel K. (and F. Ferrini, A. Fini, and L. Pennati), Relative growth and water use of seedlings from three Italian *Quercus* species, 113
- Struve, Daniel K., Tree establishment: A review of some of the factors affecting transplant survival and establishment, 10
- sweetgum (Liquidambar spp.)**
evaluation of circular root barriers, 41
- Sydnor, T. Davis *see* Rathjens, Richard G.
- Tex-R**, 23
- Tilia spp. (linden)**
withholding irrigation during establishment, 241
- tip blight**
on Austrian pine, 27
- topping**
practices in western U.S., 122
- transmission rights-of-way**
deer use of, 47
- transplanting**
factors affecting establishment, 10
- tree climbing**
handsaw damage to ropes, 305
residual strength of carabiners, 75
- tree establishment**
and deep structural roots, 182
effect of groundcovers, mulches, and masonry surfaces, 232
and use of organic mulches, 210
withholding irrigation during, 241
- tree health**
effects of pruning on palm, 294
impact of organic materials, 221
- tree inventories**
parameter identification, 53
- tree removal**
hurricane debris and damage assessment, 100
- tree stability assessment**, 14
- trunk injections**
acephate for red elm bark weevil, 148
- trunk stress**
from rigging operations, 68
- Tsuga spp. (hemlock)**
challenging with adelgid ovisacs, 1
potential for replacing with species from western North America, Asia, 5
- Typar**, 23
- Ulmus spp. (elm)**
treatment for red elm bark weevil, 148
- urban trees**
inventory parameters, 53
and strip malls, 33
and Wi-Fi networks, 202
- Vaillancourt, Lisa J. *see* Hartman, John R.
- visual quality**, 33
- visual tree assessment**, 14
- von Allmen, Erica *see* Doccola, Joseph J.
- wasp, gall**
systemic insecticide treatment for, 173
- water**
oak seedling growth and water use, 113
salinity tolerance of crapemyrtle, 129
- Watson, Gary, Discoloration and decay in severed tree roots. *see also* Day, Susan D.
- Watson, W. Todd *see* Martínez-Trinidad, Tomás
- weevil, red elm bark**, 148
- Werner, L.P. (and L.G. Jull), Fertilizer uptake, partitioning, and recovery in container-grown common hackberry (*Celtis occidentalis*) trees, 252
- Weston, Paul A. (and R.W. Harper), Potential of *Tsuga* spp. from western North America and Asia as replacements for eastern hemlock (*Tsuga canadensis*), 5
- Wilkinson, Liza *see* Smiley, E. Thomas
- wind**
hurricane debris and damage assessment, 100
stabilization systems, 157
- wireless networks**
compatibility with city trees, 202
- Wiseman, P. Eric *see* Alvey, Alexis A.; Day, Susan D.
- Wolf, Kathleen L., Strip malls, city trees, and community values, 33
- Yahner, Richard H., Deer use of a right-of-way in central Pennsylvania, U.S., 47
- Zhang, Yaoqi (and B. Zheng, B. Allen, N. Letson, and J.L. Sibley), Tree ordinances as public policy and participation tools: Development in Alabama, 165
- Zheng, Bin *see* Zhang, Yaoqi