

INDEX

Journal of Arboriculture

Volume 28, 2002

- Acer spp. (maple)**
 branch junction and hydraulic segmentation, 245
 effect of fertility levels, 208(a)
 foliar budbreak, 148
 pruning wound compartmentalization, 99
 transplanting effects, 53(a)
- Adelges tsugae (hemlock woolly adelgid)**
 breeding tolerance for, 200
- air spade for excavating root systems, 2**
 Altland, James E. *see* Wilson, Barrett C.
- anthracnose**
 on native dogwood, 159(a)
 susceptibility of native and exotic ash, 35
- ash (*Fraxinus spp.*) susceptibility to anthracnose, 35**
- aspen (*Populus spp.*), cottonwood leaf beetle on, 111(a)**
- Austin, Maureen E., Partnership opportunities in neighborhood tree planting initiatives:
 Building from local knowledge, 178
- baldcypress (*Taxodium distichum*), fertilizing container-grown, 243(a)**
- Bassuk, N. *see* Grabosky, Jason
- beech (*Fagus sylvatica*)**
 tensile strength of wood rays, 207(a)
- Beeson, R.C., Jr. *see* Eisner, Nathan J.
- Bentz, S.E. (and L.G.H. Riedel, M.R. Pooler and A.M. Townsend), Hybridization and self-compatibility in controlled pollinations of eastern North American and Asian hemlock (*Tsuga*) species, 200
- Betula spp. (birch) resistance to insects and diseases, 244(a)**
- bibliographies**
 trees and wind, 41
- biodiversity**
 Ohio's tree needs, 291
- biological control**
 chestnut blight, 208(a)
- biomass fuel, managing urban forests for, 302(a)**
- biomechanics**
 significance of tensile strength on, 207(a)
 tree safety and, 84
- biostimulants, response of English oak to, 70**
- birch (*Betula spp.*) resistance to insects and diseases, 244(a)**
- bird populations on electric transmission right-of-way, 123**
- Bishop, B. *see* D'Amato, Nicholas E.
- Blahna, D.J. *see* Kuhns, Michael R.
- botrytis blight on native dogwood, 159(a)**
- Bragg, H.A. *see* Kuhns, Michael R.
- branch failure, effect of pruning on, 137**
- branch morphology**
 branch junction and hydraulic segmentation, 245
 impact on wound compartmentalization, 99
- budbreak, effect of chilling and heat unit levels on, 148**
- Burras, L. *see* Iakovoglou, Valasia
- cabing**
 tree decay and discoloration, 187
- cankers**
 effect of dicamba herbicide on *Tuberularia ulmea*, 94
- canopy cover**
 assessing over streets, sidewalks, 270
- carbon dioxide (CO₂), urban trees effect on atmospheric, 113**
- carbon sequestration, urban trees and atmospheric CO₂, 113**
- Carya illinoensis (pecan)**
 uniconazol application method, 159(a)
- Castanea spp. (chestnut)**
 biocontrol of blight, 208(a)
- cations**
 effects on activity of gypsy moth larvae, 243(a)
- Cermak, J. *see* Stokes, Alexia
- chestnut (*Castanea spp.*)**
 biocontrol of blight, 208(a)
- Chung, B.Y. *see* Jin, Zhenfu
- climate change**
 urban trees and atmospheric CO₂, 113
- cold hardiness of corktree, 53(a)**
- community forestry**
 neighborhood tree planting initiatives, 178
- compartmentalization**
 branch junction and hydraulic segmentation, 245
 Lac Balsam[®] as wound treatment, 264
 pruning wounds, 99
- computer-aided design**
 AMAPmod software, 2
Tilia physical dimensions over time, 209
- corktree (*Phellodendron spp.*) cold hardiness, 53(a)**
- Cornus spp. (dogwood)**
 anthracnose and botrytis blight on, 159(a)
 growth and mortality in Alabama, 304(a)
 resistance to insects and diseases, 244(a)

- cottonwood leaf beetles**
larval population on *Populus*, 111(a)
- Council of Tree and Landscape Appraisers (CTLA)**
comparing formula methods, 11
- Crane, D.C. *see* Nowak, David J.
- Creech, G. *see* Williams, J.D.
- crown structure**
asymmetry and torsional wind loading, 110(a)
- Cullen, Scott, Tree appraisal: Can depreciation factors be rated greater than 100%?, 153
- Cullen, Scott, Trees and wind: A bibliography for tree care professionals, 41
- Cullen, Scott, Trees and wind: Wind scales and speeds, 237
- D'Amato, Nicholas E. (and T.D. Sydnor and D.K. Struve), Urban foresters identify Ohio's tree needs, 291
- D'Amato, Nicholas E. (and T.D. Sydnor, M. Knee, R. Hunt and B. Bishop), Which comes first, the root or the crack?, 277
- D'Amato, Nicholas E. (and T.D. Sydnor, R. Hunt and B. Bishop), Root growth beneath sidewalks near trees of four genera, 283
- Danielson, D. *see* Jacobs, Karel
- decay**
acoustical assessment technique, 244(a)
associated with hardware installation, 187
- demographics of urban forestry profession**, 27
- differential resistance of ash to anthracnose**, 35
- discoloration associated with hardware installation**, 187
- diseases**
see also fungal diseases
anthracnose on ash, 35
resistance of dogwood and birch, 244(a)
Tuberularia ulmea, 94
- dogwood (*Cornus spp.*)**
anthracnose and botrytis blight on, 159(a)
growth and mortality in Alabama, 304(a)
- dogwood (*Cornus spp.*) (cont.)**
resistance to insects and diseases, 244(a)
- dormancy**
buddbreak in maple, 148
- drought resistance identification using chlorophyll fluorescence**, 215
- Dutch elm disease**
phylogeny and taxonomy, 110(a)
tests of six tolerant elms, 109
- Dwyer, John E. (and D.J. Nowak and G.W. Watson), Future directions for urban forestry research in the United States, 231
- Eakes, D.J. *see* Wilson, Barrett C.
- economic analysis**
compensatory value of urban trees, 194
- Eisner, Nathan J. (and E.F. Gilman and J.C. Grabosky), Branch morphology impacts compartmentalization of pruning wounds, 99
- Eisner, Nathan J. (and E.F. Gilman, J.C. Grabosky and R.C. Beeson, Jr.), Branch junction characteristics affect hydraulic segmentation in red maple, 245
- Elaeagnus* (Russian olive)**
herbicide for *Tuberularia ulmea*, 94
- electricity lines**
bird populations on right-of-ways, 123
- elm leaf beetles**
suitability of new Asian elm species, 303(a)
- elm (*Ulmus spp.*)**
herbicide for *Tuberularia ulmea*, 94
new Asian and suitability for elm leaf beetle, 309(a)
preferred by Japanese beetle, 53(a)
tests of DED-tolerant, 109
- Eucalyptus spp.***
micro-systemic treatment for red gum lerp psyllid, 144
- Fagus sylvatica* (beech)**
tensile strength of wood rays, 207(a)
- Ferrini, F. (and F.P. Nicese), Response of English oak (*Quercus robur* L.) trees to biostimulants application in the urban environment, 70
- fertilizer and fertilizing**
container-grown baldcypress, 243(a)
effect on maple, 208(a)
N on shade trees in US, 252
- fire**
long-term effects in old-growth stands, 243(a)
- Fourcaud, T. *see* Stokes, Alexia
- Fraxinus spp.* (ash) susceptibility to anthracnose**, 35
- Frevert, T. *see* Gartner, Justine T.
- fungal diseases**
Dutch elm disease, 110(a)
involvement of tyloses and gels in defense, 243(a)
Ophiostoma piceae complex, 110(a)
Tuberularia ulmea, 94
- Gartner, Justine T. (and T. Treiman and T. Frevert), Missouri urban forest—A ten-year comparison, 76
- Gilliam, C.H. *see* Williams, J.D.
- Gilman, E.F. *see* Eisner, Nathan J.
- Ginkgo biloba* leaf litter changes during mulching**, 171
- Gleditsia spp.* (honeylocust)**
relationship of roots and sidewalk cracks, 277
root growth beneath sidewalks, 283
- goldenraintree (*Koelreuteria spp.*)**
relationship of roots and sidewalk cracks, 277
root growth beneath sidewalks, 283
- Grabosky, Jason (and N. Bassuk and B.Z. Marranca), Preliminary findings from measuring street tree shoot growth in two skeletal soil installations compared to tree lawn plantings, 106
see also Eisner, Nathan J.

- growth regulators**
Primo for woody landscape plants, 207(a)
- gypsy moth (*Lymantria dispar*), effects of cations on activity of,** 243(a)
- Hammitt, William E., Urban forests and parks as privacy refuges, 19
- hardware installation**
tree decay and discoloration, 187
- hemlock (*Tsuga* spp.)**
hybridization and self-compatibility, 200
- hemlock woolly adelgid (*Adelgis tsugae*)**
breeding tolerance for, 200
- herbicides**
birds and electric transmission right-of-way, 123
effects of dicamba on *Tuberularia ulmea*, 94
- holly (*Ilex* spp.) susceptibility to Florida wax scale,** 160(a)
- honeylocust (*Gleditsia* spp.)**
relationship of roots and sidewalk cracks, 277
root growth beneath sidewalks, 283
- Hruska, J. *see* Stokes, Alexia
- Hudler, G.W. (and S. Jensen-Tracy), Lac Balsam® as a treatment to hasten wound closure and minimize discoloration and decay, 264
- Hunt, R. *see* D'Amato, Nick
- Hutnik, R.J. *see* Yahner, Richard H.
- hybridization in controlled pollinations of hemlock,** 200
- hydraulic conductivity**
branch junction and hydraulic segmentation, 245
- Iakovoglou, Valasia (and J. Thompson and L. Burras), Characteristics of trees according to community population level and by land use in the U.S. Midwest, 59
- Iiyama, K. *see* Jin, Zhenfu
- Ilex* spp. (holly) susceptibility to Florida wax scale,** 160(a)
- imidacloprid micro-injection in *Eucalyptus*,** 144
- increment core analysis on urban trees,** 59
- insect resistance of dogwood and birch,** 244(a)
- integrated pest management**
media coverage in urban newspapers, 303(a)
- Jackson, Marcus B. (and R.W. Stack), Effects of dicamba herbicide on *Tuberularia ulmea* canker development, 94
- Jacobs, Karel (and D. Danielson), Variation in field susceptibility of native and exotic ash species to anthracnose, 35
- Japanese beetle (*Popillia japonica*)**
preference for temperate Chinese elm, 53(a)
susceptibility of woody landscape plants, 302(a)
- Jensen-Tracy, S. *see* Hudler, G.W.
- Jin, Zhenfu (and B.Y. Chung, K. Iiyama and S. Watanabe), Changes in chemical components of leaf litter of *Ginkgo biloba* during mulching, 171
- Kane, Brian C.P. (and H.D.P. Ryan, III), Discoloration and decay associated with hardware installation in trees, 187
- Knee, M. *see* D'Amato, Nicholas E.
- Koelreuteria* spp. (goldenraintree)**
relationship of roots and sidewalk cracks, 277
root growth beneath sidewalks, 283
- Kristoffersen, P. *see* Larsen, Fleming Kjølstad
- Kuhns, Michael R. (and H.A. Bragg and D.J. Blahna), Involvement of women and minorities in the urban forestry profession, 27
- Lac Balsam® as wound treatment,** 264
- land-use planning**
effect on tree growth, 59
- landscape trees**
evaluation of southern magnolia, 224
- landscapes**
consumer preferences in residential, 54(a)
future of urban forestry in U.S., 231
- Larsen, Fleming Kjølstad (and P. Kristoffersen), *Tilia's* physical dimensions over time, 209
- laws**
parking lot shading ordinance, 160(a)
- leaves**
color and susceptibility to Japanese beetles, 302(a)
litter changes during mulching, 171
- linden (*Tilia* spp.)**
effects of pollarding and weather, 54(a)
physical dimensions over time, 209
- Liscinsky, S.A. *see* Yahner, Richard H.
- Luley, Christopher J. (and S.M. Sisinni and A. Pleninger), The effect of pruning on service requests, branch failures, and priority maintenance in the city of Rochester, New York, U.S., 137
see also Nowak, David J.
- Lymantria dispar* (gypsy moth)**
effects of cations on activity of, 243(a)
- Maco, Scott E. (and E.G. MacPherson), Assessing canopy cover over streets and sidewalks in street tree populations, 270
- MacPherson, E.G. *see* Maco, Scott E.
- Magnolia grandiflora***
cultivar trials in Alabama, 224
- maple (*Acer* spp.)**
branch junction and hydraulic segmentation, 245
effect of fertility levels, 208(a)
foliar budbreak, 148
pruning wound compartmentalization, 99
transplanting effects, 53(a)
- Marranca, B.Z. *see* Grabosky, Jason
- McCabe, James J., A discrete event simulation of a municipal street tree maintenance operation, 131

- media coverage of IPM in urban newspapers**, 303(a)
- micro-systemic treatment for red gum lerp psyllid**, 144
- minorities' involvement in urban forestry**, 27
- Missouri**
10-year comparison of urban forests, 76
- models, street tree maintenance**, 131
- mulch**
evaluation of organic landscape, 54(a)
leaf litter chemical changes, 171
vertical mulching, 229
- mycorrhizae**
AMF colonization strategies, 207(a)
Nadyezhdina, N. *see* Stokes, Alexia
Nadyezhdina, V. *see* Stokes, Alexia
Nicese, F.P. *see* Ferrini, F.
Niklas, Karl J., Wind, size, and tree safety, 84
- nitrogen**
economy in temperate trees, 303(a)
flux in planter soils, 111(a)
shade tree fertilization research, 252
- Nowak, David, J. (and D.C. Crane and J.F. Dwyer), Compensatory value of urban trees in the United States, 194
- Nowak, David J. (and J.C. Stevens, S. M. Sisinni and C.J. Luley), Effects of urban tree management and species selection on atmospheric carbon dioxide, 113
see also Dwyer, John E.
- oak (*Quercus* spp.)**
lateral root development, 111(a)
pruning wound compartmentalization, 99
relationship of roots and sidewalk cracks, 277
response to biostimulants, 70
root growth beneath sidewalks, 283
- Ophiostoma piceae* complex**
phylogeny and taxonomy, 110(a)
- ordinances** *see* laws
- overwintering**
spider mites on ornamental nursery plants, 159(a)
- oxydemeton-methyl micro-injection in *Eucalyptus***, 144
- parking lots**
shading ordinance, 160(a)
- parks as privacy refuges**, 19
- pecan (*Carya illinoensis*)**
uniconazol application method, 159(a)
Percival, Glynn C. (and C.N. Sheriffs), Identification of drought-tolerant woody perennials using chlorophyll fluorescence, 215
- Phellodendron* spp. (corktree) cold hardiness**, 53(a)
- phosphorus flux in planter soils**, 111(a)
- photosynthesis efficiency as measure of drought tolerance**, 215
Pleninger, A. *see* Luley, Christopher J.
- pollarding**
effect on growth of lime, 54(a)
- pollination control in hemlock**, 200
Pooler, M.R. *see* Bentz, S.E.
- Popillia japonica* (Japanese beetle)**
preference for temperate Chinese elm, 53(a)
susceptibility of woody landscape plants, 302(a)
- Populus* spp. (aspen or poplar), cottonwood leaf beetle on**, 111(a)
- Praus, L. *see* Stokes, Alexia
- privacy function of urban forests**, 19
- pruning**
effect on service requests, branch failure, priority maintenance, 137
response of woody landscape plants, 207(a)
wound compartmentalization, 99
- Quercus* spp. (oak)**
lateral root development, 111(a)
pruning wound compartmentalization, 99
relationship of roots and sidewalk cracks, 277
response to biostimulants, 70
root growth beneath sidewalks, 283
- red gum lerp psyllid (RGLP), micro-systemic treatment for**, 144
- remote sensing**
ground-penetrating radar, 2
- renewable energy**
managing urban forests for biomass fuel, 302(a)
Riedel, L.G.H. *see* Bentz, S.E.
- root growth**
after soil replacement, 229
beneath sidewalks, 283
intrusion in sewer systems, 160(a)
lateral development in cork oak, 111(a)
of trees in sidewalks, 207(a)
- roots**
mapping system architecture, 2 and sidewalk cracks, 277
- Russian olive (*Elaeagnus*)**, 94
Ryan, H.D.P., III *see* Kane, Brian C.P.
- scale insects**
holly susceptibility to Florida wax scale, 160(a)
- self-compatibility in controlled pollinations of hemlock**, 200
- sewer systems, tree roots in**, 160(a)
- shade ordinance for parking lots**, 160(a)
Sheriffs, C.N. *see* Percival, Glynn C.
- shoots**
growth in street trees on skeletal soils, 106
growth on trees in sidewalks, 207(a)
Sibley, J.L. *see* Williams, J.D.; Wilson, Barrett C.
- sidewalks**
assessing canopy cover, 270
effect on root, shoot growth, 207(a)
relationship of roots and cracks, 277
root growth beneath, 283
Simonne, E.H. *see* Wilson, Barrett C.
Sisinni, S.M. *see* Luley, Christopher J.; Nowak, David J.
- social assessment**
resident preferences for street trees, 161
- soil**
N and P fluxes in planter, 111(a)
street tree growth on skeletal, 106
- soil oxygen**
concentration under cracked, uncracked sidewalks, 277

soil replacement

long-term results around oak, 229

spider mites on ornamental nursery plants, 159(a)

Stack, R.W. *see* Jackson, Marcus B.

Standard Tree Evaluation Method (STEM), 11

Stevens, J.C. *see* Nowak, David J.

Stokes, Alexia (and T. Fourcaud, J. Hruska, J. Cermak, N. Nadyezhdina, V. Nadyezhdina and L. Praus), An evaluation of different methods to investigate root system architecture of urban trees *in situ*: I. Ground-penetrating radar, 2

street trees

assessing canopy cover, 270

pruning, 137

relationship of roots and sidewalk cracks, 277

resident preference in Melbourne, 161

root growth beneath sidewalks, 283

simulating maintenance operation, 131

Struve, Daniel K., A review of shade tree nitrogen fertilization research in the United States, 252

see also D'Amato, Nicholas E.

surveys of park visitors, 19

Sydnor, T.D. *see* D'Amato, Nicholas E.

Taxodium distichum (baldcypress), fertilizing container-grown, 243(a)**temperature**

effect of chilling and heat unit levels on budbreak in maple, 148

tensile strength in beech, 207(a)

Thompson, J. *see* Iakovoglou, Valasia

Tilia spp. (linden)

effects of pollarding and weather, 54(a)

physical dimensions over time, 209

Townsend, A.M. *see* Bentz, S.E.

transplanting

effect on maple, 53(a)

tree appraisal

depreciation factors greater than 100%?, 153

formula methods comparison, 11

tree characteristics

resident preferences in Melbourne, 161

tree growth

biostimulants on oak, 70

dependent on population, land use, 59

on skeletal soils, 106

Tilia physical dimensions, 209

tree inventories

10-year comparison in Missouri, 76

Ohio, 291

tree maintenance

effect of pruning on service requests, 137

neighborhood tree planting initiatives, 178

tree risk

bibliography for tree care professionals, 41

computing safety factors, 110(a)

crown asymmetry and breakage, 110(a)

wind and size factors, 84

tree valuation

10-year comparison in Missouri, 76

trees

see also urban trees

N fertilization on shade trees, 252

nitrogen economy in temperate, 303(a)

wind and, 237

Treiman, T. *see* Gartner, Justine T.

Tsuga spp. (hemlock)

hybridization and self-compatibility, 200

Ulmus spp. (elm)

herbicide for *Tuberularia ulmea*, 94

new Asian and suitability for elm leaf beetle, 303(a)

preferred by Japanese beetle, 53(a)

tests of DED-tolerant, 109

uniclinal application method on pecan, 159(a)**urban forestry**

future in United States, 231

management for biomass fuel, 302(a)

Ohio's tree needs, 291

role of women and minorities, 27

urban forests

10-year comparison in Missouri, 76

long-term effects of fire in old-growth, 243(a)

as privacy refuges, 19

urban trees

see also street trees

characteristics dependent upon population, land use, 59

compensatory value in U.S., 194

effect on atmospheric CO₂, 113

growth in skeletal soils, 106

Tilia physical dimensions, 209

Watanabe, S. *see* Jin, Zhenfu

Watson, Gary, Comparing formula methods of tree appraisal, 11

Watson, Gary W., Soil replacement: Long-term results, 229

see also Dwyer, John E.

Williams, J.D. (and J.L. Sibley, C.H. Gilliam and G. Creech), Evaluations of *Magnolia grandiflora* selections in south-central Alabama, U.S., 224

Williams, Kathryn, Exploring resident preferences for street trees in Melbourne, Australia, 163

Wilson, Barrett C. (and J.L. Sibley, J.E. Altland, E.H. Simonne and D.J. Eakes), Chilling and heat unit levels affect foliar budbreak of selected red and Freeman maple cultivars, 148

selected red and Freeman maple cultivars, 148

wind

bibliography for tree care professionals, 41

factor in tree safety, 84

-induced stem damage, 110(a)

torsional loading due to crown asymmetry, 110(a)

wind exposure

scales and speed, 237

women

involvement in urban forestry, 27

woody plants, identifying drought-tolerant, 215

wounds

branch junction and hydraulic segmentation, 245

branch morphology and compartmentalization, 99

Lac Balsam[®] as treatment, 264

xylem involvement in defense against vascular fungus, 243(a)

Yahner, Richard H. (and R.J. Hutnik and S. A. Liscinsky), Bird populations associated with an electric transmission right-of-way, 123

Young, Lester C., The efficacy of micro-injected imidacloprid and oxydemeton-methyl on red gum eucalyptus trees (*Eucalyptus camaldulensis*) infested

with red gum lerp psyllid (*Glycaspis brimblecombei*), 144

***Zelkova* spp.**

relationship of roots and sidewalk cracks, 277

root growth beneath sidewalks, 283

9th Guide Ad

File provided

