



INDEX

Arboriculture & Urban Forestry

Volume 33, 2007

- Acer spp. (maple)**
 compost-amended backfill and paved surface effects, 386
 diseases with bleeding canker symptoms, 122
 effect of soil decompaction and amendment on root growth, 428
 fertilization and establishment, 113
 preventing sapsucker damage, 367
- Adelges tsugae (hemlock woolly adelgid)**
 systemic insecticide application, 421
 trunk-injected imidacloprid, 12
- Ades, Peter K. *see* Johnstone, Denise M.
- Aesculus spp. (horsechestnut)**
 diseases with bleeding canker symptoms, 123
- Ahern, Robert. *see* Frank, Steven
- Ailanthus altissima (tree-of-heaven)**
 herbicides for control of, 55
- air quality**
 oxygen production in urban trees, 220
- AlBalushi, Ali Mohammed Salim. *see* Percival, Glynn C.
- Anhold, John A. *see* DeGomez, Tom
- Anulewicz, Andrea C. (and D.G. McCullough and D.L. Cappaert), Emerald ash borer (*Agrilus planipennis*) density and canopy dieback in three North American ash species, 338
- Appel, David N. *see* Camilli, Kim
- apple (Malus spp.)**
 diseases with bleeding canker symptoms, 126
 tests on crabapple as street tree, 176
- arboriculture industry**
 economic patterns in U.S., 292
- arborplug**
 imidacloprid for woolly adelgid control, 12
- Arbutus spp. (madrone)**
 diseases with bleeding canker symptoms, 123
- Arkansas**
 irrigated, field-grown birch, 275
- Arnold, Michael A. (and G.V. McDonald, D.L. Bryan, G.C. Denny, W.T. Watson, and L. Lombardini), Below-grade planting adversely affects survival and growth of tree species from five different families, 64
- ash (Fraxinus spp.)**
 canopy dieback and density of emerald ash borers, 338
 potential economic impact of emerald ash borers, 48
 temperature fluctuations in, 193
- ash borers, emerald (Agrilus planipennis)**
 assessing hazard to community forests, 350
 density and canopy dieback in ash, 338
 potential economic impact, 48
- Asian longhorned beetles**, 300(a)
- avocado (Persea spp.)**
 diseases with bleeding canker symptoms, 126
- backfill**
 compost-amended, 386
- bacterial leaf scorch**
 effect of paclobutrazol on, 246
 on landscape trees, 376
- Baietto, Manuela. *see* Ferrini, Francesco
- Ball, John (and S. Mason, A. Kiesz, D. McCormick, and C. Brown), Assessing the hazard of emerald ash borer and other exotic stressors to community forests, 350
- Ballard, Benjamin D. (and K.L. McLoughlin and C.A. Nowak), New diagrams and applications for the wire zone-border zone approach to vegetation management on electric transmission line rights-of-way, 435
- Barden, Charles J. *see* Geyer, Wayne A.
- bark beetles**
 insecticide evaluation, 162
 protecting high-value trees from, 157(a)
- basiodomata**
 field guide to wood decay fungal species, 410
- Bassuk, Nina L. *see* Rivenshield, Angela
- beech (Fagus spp.)**
 diseases with bleeding canker symptoms, 125
- beetles**
 Asian longhorned, 300(a)
 bark, 157(a), 162
 Japanese, 210, 392
 mountain pine, 318
 nitidulid, 132
 pine engraver, 228(a)
- Betula spp. (birch)**
 diseases with bleeding canker symptoms, 123
 growth in first season after transplant, 301(a)
 performance of irrigated, field-grown, 275
- bifenthrin**
 evaluation for use on bark beetle, 162
- biodiversity**
 greenways and urban conservation, 71(a)
- birch (Betula spp.)**
 diseases with bleeding canker symptoms, 123
 growth in first season after transplant, 301(a)
 performance of irrigated, field-grown, 275
- birds**
 quantity and quality of urban environments, 157(a)
- blight, ramorum**, 122
- Booth, Donald C. *see* Smiley, E. Thomas
- Borden, John H. (and G.R. Sparrow and N.L. Gervan), Operational success of verbenone against the mountain pine beetle in a rural community, 318
- borers, emerald ash (Agrilus planipennis)**
 assessing hazard to community forests, 350

- density and canopy dieback in ash, 338
potential economic impact, 48
- branches**
protection zone, 132
strength in Bradford pear, 283
- Bristol, Eric J. *see* Docola, Joseph J.
Brown, Craig. *see* Ball, John
Bryan, Donita L. *see* Arnold, Michael A.
Bühler, Oliver (and P. Kristoffersen and S.U. Larsen), Growth of street trees in Copenhagen with emphasis on the effect of different establishment concepts, 330. *see also* Nielsen, Christian N.
- bulk density**
decreasing in compacted soils, 140
- Bumgardner, Matthew. *see* Sydnor, T. Davis
Caldwell, Judith D. *see* O'Bryan, Christopher M.
Camilli, Kim (and D.N. Appel and W. Todd Watson), Studies on pruning cuts and wound dressings for oak wilt control, 132
- Canada**
decline of bur oak, 22
- cankers, bacterial**, 122
- canopy dieback**
and density of emerald ash borers, 338
- Cappaert, David L. *see* Anulewicz, Andrea C.
- carbaryl**
evaluation for use on bark beetle, 162
- carbon credits**
cost effectiveness of urban tree plantings, 371(a)
- Castanea spp. (chestnut)**
diseases with bleeding canker symptoms, 123
- Catton, H.A. (and S. St. George and W.R. Remphrey), An evaluation of bur oak (*Quercus macrocarpa*) decline in the urban forest of Winnipeg, Manitoba, Canada, 22
- chestnut (Castanea spp.)**
diseases with bleeding canker symptoms, 123
- Citrus spp.**
diseases with bleeding canker symptoms, 123
- Clancy, Karen M. *see* DeGomez, Tom
- climbing**
friction coefficients for arborist ropes, 31
- cold hardiness**
in ash trees, 193
- communities**
impact of statewide urban forestry programs, 168
- compost**
for decreasing bulk density in compacted soils, 140
effect on leaf parameters and physiology of maple, 386
- conifers**
protecting high-value trees from bark beetles, 157(a)
- conservation**
greenways and urban, 71(a)
- container-grown plants**, 43
- Cornus spp. (dogwood)**
diseases with bleeding canker symptoms, 123
- Crane, Daniel E. *see* Nowak, David J.
- crapemyrtle (Lagerstroemia spp.)**
biopesticides for foliar disease and Japanese beetle, 210
- Cupressus spp. (cypress)**
insecticide evaluation for bark beetle, 162
- cypress (Cupressus spp.)**
insecticide evaluation for bark beetle, 162
- Daley, Michael. *see* Ford, Chelcy R.
Day, Susan D. (and J.R. Harris), Fertilization of red maple (*Acer rubrum*) and littleleaf linden (*Tilia cordata*) trees at recommended rates does not aid tree establishment, 113
- decay**
identification guide for wood decay fungal species, 410
prediction in eucalypts, 76
- defoliation**
by Japanese beetles, 392
relationship of gypsy moth spread to, 71(a)
- DeGomez, Tom (and C.J. Hayes, J.A. Anhold, J.D. McMillin, and K.M. Clancy), Evaluation of insecticides for protecting Arizona cypress (*Cupressus arizonica*) and one-seed juniper (*Juniperus monosperma*) from attack by *Phloeosinus* bark beetles, 162
- dendrochronology**
decline of bur oak in Winnipeg, 22
- Denmark**
street tree growth in Copenhagen, 330
- Denny, Geoffrey C. *see* Arnold, Michael A.
DeStefano, Darren A. (and A.P. Grybauskas, J.L. Sherald, B. Momen, Q. Huang, and J.H. Sullivan), Effect of the growth regulator paclobutrazol on growth of the bacterial pathogen *Xylella fastidiosa*, 246
- diseases and disease control**
bacterial leaf scorch, 246, 376
with bleeding canker symptoms, 122
- foliar on shrubs, 210
fungal, 410
spread of forest root diseases, 158(a)
sudden oak death, 72(a)
- DiTomaso, Joseph M. (and G.B. Kyser), Control of *Ailanthus altissima* using stem herbicide application techniques, 55
- Docola, Joseph J. (and E.J. Bristol, S.D. Sifleet, J. Lojko, and P.M. Wild), Efficacy and duration of trunk-injected imidacloprid in the management of hemlock woolly adelgid (*Adelges tsugae*), 12
- dogwood (Cornus spp.)**
diseases with bleeding canker symptoms, 123
- drought tolerance**
paclobutrazol-induced, 397
- Duryea, Mary L. (and E. Kampf and R.C. Littell), Hurricanes and the urban forest: I. Effects on southeastern United States coastal plain tree species, 83
- Duryea, Mary L. (and E. Kampf, R.C. Littell, and C.D. Rodríguez-Pedraza), Hurricanes and the urban forest: II. Effects on tropical and subtropical tree species, 98
- ecology**
urban political, 157(a)
- economics**
patterns in U.S. arboriculture, 292
potential impact of emerald ash borers, 48
residents willing to pay for community forests?, 300(a)
- ecosystems**
promoting health with green infrastructure, 300(a)
- Elaeagnus spp. (Russian olive)**
diseases with bleeding canker symptoms, 123
- electric utilities. see also** rights-of-way
knowledge and attitudes about pruning, 264
- emerald ash borers (Agrilus planipennis)**
assessing hazard to community forests, 350
density and canopy dieback in ash, 338
potential economic impact, 48
- eucalypts**
decay prediction, 76
- Fagus spp. (beech)**
diseases with bleeding canker symptoms, 125
- Ferrini, Francesco (and M. Baietto), Effect of compost-amended backfill and paved surface on leaf parameters

- and physiology of Norway maple (*Acer platanoides* L.), 386
- fertilization**
and establishment of maple, 113
- field guides**
to wood decay fungal species, 410
- foliage**
N allocation in walnut, 72(a)
- Ford, Chelcy R. (and J.M. Vose, M. Daley, and N. Phillips), Use of water by eastern hemlock: Implications for systemic insecticide application, 421
- forest structure**
in urban-rural gradient, 372(a)
- Frank, Steven (and R. Ahern and M.J. Raupp), Does imidacloprid reduce defoliation by Japanese beetles on linden for more than one growing season?, 392
- Fraser, Gillian A. *see* Percival, Glynn C.
- Fraxinus* spp. (ash)**
canopy dieback and density of emerald ash borers, 338
potential economic impact of emerald ash borers, 48
temperature fluctuations in, 193
- friction**
coefficients for arborist ropes, 31
- fungus**
identification guide for wood decay species, 410
- Garbelotto, M. (and D.J. Schmidt and T.Y. Harnik), Phosphite injections and bark application of phosphite + Pentabark control sudden oak death in coastal live oak, 309
- geospatial methods**
information gathering for urban forestry, 300(a)
- Gerhold, Henry D., Callery pear cultivars tested as street trees: Final report on a 12-year study, 153
- Gerhold, Henry D., Crabapple cultivars tested as street trees: Third report, 176
- Gerhold, Henry D., Tree lilac (*Syringa reticulata*) cultivars tested as street trees: Second report, 182
- Gervan, Nicole L. *see* Borden, John H.
- Geyer, Wayne A. (and K.D. Lynch and C.J. Barden), Rocky Mountain juniper seed source test in western Kansas, U.S., 325
- Giblin, Chad P. *see* Weicherding, Patrick J.
- Gillman, Jeffrey H. *see* Weicherding, Patrick J.
- Gilman, Edward F. *see* Grabosky, Jason C.
- glyphosate**
control of tree-of-heaven, 55
- Gonthier, Paolo (and G. Nicolotti), A field key to identify common wood decay fungal species on standing trees, 410
- Grabosky, Jason C. (and E.F. Gilman), Response of two oak species to reduction pruning cuts, 360
- green space**
assessing psychological and social dimensions, 158(a)
for promoting ecosystem and human health, 300(a)
and urban conservation, 71(a)
- growth regulators**
paclobutrazol, 246, 397
- Grybauskas, Arv P. *see* DeStefano, Darren A.
- Gu, Mengmeng (and J.A. Robbins and C.R. Rom), Early landscape performance of 20 field-grown birch genotypes at two locations in Arkansas, U.S. and response to irrigation, 275
- gypsy moth (*Lymantria dispar*)**
relationship of spread to defoliation, 71(a)
- Hanson, David L. *see* Weicherding, Patrick J.
- Harnik, T.Y. *see* Garbelotto, M.
- Harris, J. Roger. *see* Day, Susan D.
- Hascher, William (and C.E. Wells), Effects of soil decompaction and amendment on root growth and architecture in red maple (*Acer rubrum*), 428
- Hayes, Christopher J. *see* DeGomez, Tom
- hazard trees. *see* decay**
- hemlock (*Tsuga* spp.)**
imidacloprid for woolly adelgid control, 12
systemic insecticide application, 421
- hemlock woolly adelgid (*Adelges tsugae*)**
systemic insecticide application, 421
trunk-injected imidacloprid, 12
- herbicides**
control of tree-of-heaven, 55
long-term trends in small mammals in rights-of-way, 147
- Hoehn, Robert. *see* Nowak, David J.
- horsechestnut (*Aesculus* spp.)**
diseases with bleeding canker symptoms, 123
- Huang, Qi. *see* DeStefano, Darren A.
- Hudler, G.W. *see* Nelson A.W.
- Hurd, Amy R. *see* McLean, Daniel D.
- Hutnik, Russell J. *see* Yahner, Richard H.
- Hydrangea* spp.**
biopesticides for foliar disease and Japanese beetle, 210
- imazapyr**
control of tree-of-heaven, 55
- imidacloprid**
effect on Japanese beetles on linden, 392
for management of hemlock woolly adelgid, 12
- Indiana**
leaf area and summertime temperature, 372(a)
- insecticides**
biopesticides for foliar disease and Japanese beetle, 210
systemic application in hemlock, 421
systemic for engraver beetles, 228(a)
for use on bark beetles, 162
- integrated pest management**
verbenone for mountain pine beetles, 318
- invasive plants**
tree-of-heaven (*Ailanthus altissima*), 55
- irrigation**
field-grown birch, 275
and growth of street and park trees, 231
influence of volume on shrub establishment, 202
- Japan**
urban forest restoration following WWII, 229(a)
- Japanese beetles**
biopesticides for, 210
effect of imidacloprid, 392
- Jensen, Ryan R. *see* McLean, Daniel D.
- Johnson, Gary R. *see* Weicherding, Patrick J.
- Johnstone, Denise M. (and P.K. Ades, G.M. Moore, and I.W. Smith), Predicting wood decay in eucalypts using an expert system and the IML-Resistograph drill, 76
- Juglans* spp. (walnut)**
diseases with bleeding canker symptoms, 125
N allocation in foliage, 72(a)
- juniper (*Juniperus* spp.)**
insecticide evaluation for bark beetle, 162
seed source test, 325
- Kampf, Eliana. *see* Duryea, Mary L.
- Kane, Brian, Branch Strength of Bradford pear (*Pyrus calleryana* var. 'Bradford'), 283
- Kane, Brian, Friction coefficients for arborist ropes passing through cambium saver rings, 31
- Kiesz, Aaron. *see* Ball, John
- Kresse, Sarah J. *see* Ries, Paul D.
- Kristoffersen, Palle. *see* Bühler, Oliver; Nielsen, Christian N.

- Kuhns, Michael R. (and D.K. Reiter), Knowledge of and attitudes about utility pruning and how education can help, 264
- Kyser, Guy B. *see* DiTomaso, Joseph M.
- Lagerstoemia spp. (crapemyrtle)**
biopesticides for foliar disease and Japanese beetle, 210
- landscape architecture**
evolution of profession, 228(a)
- Larsen, Søren Ugilt. *see* Bühler, Oliver
- laurel (*Prunus spp.*)**
film-forming polymers for reducing salt injury, 185
- leaf physiology**
area and summer temperatures, 372(a)
compost-amended backfill and paved surface effects, 386
- leaf scorch, bacterial**
effect of paclobutrazol on, 246
on landscape trees, 376
- leafhoppers**
BLS on landscape trees, 376
- lilac (*Syringa spp.*)**
tests on tree lilac as street tree, 182
- linden (*Tilia spp.*)**
imidacloprid for Japanese beetles, 392
- Liquidambar spp. (sweetgum)**
diseases with bleeding canker symptoms, 125
- Liriodendron spp. (yellow poplar)**
diseases with bleeding canker symptoms, 126
- Lithocarpus spp. (tanoak)**
diseases with bleeding canker symptoms, 126
- Littell, Ramon C. *see* Duryea, Mary L.
- Lojko, J. *see* Doccola, Joseph J.
- Lombardini, Leonardo. *see* Arnold, Michael A.
- Lymantria dispar (gypsy moth)**
relationship of spread to defoliation, 71(a)
- Lynch, Keith D. *see* Geyer, Wayne A.
- MacFarlane, David W., Quantifying urban saw timber abundance and quality in southeastern lower Michigan, U.S., 253
- madrone (*Arbutus spp.*)**
diseases with bleeding canker symptoms, 123
- Malus spp. (apple)**
diseases with bleeding canker symptoms, 126
tests on crabapple as street tree, 176
- maple (*Acer spp.*)**
compost-amended backfill and paved surface effects, 386
- diseases with bleeding canker symptoms, 122
- effect of soil decompaction and amendment on root growth, 428
- fertilization and establishment, 113
- preventing sapsucker damage, 367
- Maryland**
social and vegetative structure in urban neighborhoods, 372(a)
- Mason, Sarah. *see* Ball, John
- Maurer, Michael. *see* Montague, Thayne
- McCormick, Dan. *see* Ball, John
- McCullough, Deborah G. *see* Anulewicz, Andrea C.
- McDonald, Garry V. *see* Arnold, Michael A.
- McKenney, Cynthia. *see* Montague, Thayne
- McLean, Daniel D. (and R.R. Jensen and A.R. Hurd), Seeing the urban forest through the trees: Building depth through qualitative research, 304
- McLoughlin, Kevin L. *see* Ballard, Benjamin D.
- McMillin, Joel D. *see* DeGomez, Tom
- McPherson, E. Gregory, Benefit-based tree valuation, 1
- Michigan**
quantifying urban saw timber abundance and quality, 253
- microclimate**
impact of park trees in urban areas, 71(a), 228(a)
- Minnesota**
Minneapolis oak forests and urbanization, 301(a)
transformation of oak forest spatial structure, 371(a)
- Mmbaga, M.T. (and J.B. Oliver), Effect of biopesticides on foliar diseases and Japanese beetle (*Popillia japonica*) adults in roses (*Rosa spp.*), oakleaf hydrangea (*Hydrangea quercifolia*), and crapemyrtle (*Lagerstroemia indica*), 210
- models**
DISMUT for urban forest inventories, 228(a)
simulator for spread of forest root diseases, 158(a)
- Momen, Bahram. *see* DeStefano, Darren A.
- Montague, Thayne (and C. McKenney, M. Maurer, and B. Winn), Influence of irrigation volume and mulch on establishment of select shrub species, 202
- Moore, Gregory M. *see* Johnstone, Denise M.
- mulch**
effect on leaf parameters and physiology of maple, 386
influence on shrub establishment, 202
- Nelson, A.H. (and G.W. Hudler), A summary of North American hardwood tree diseases with bleeding canker symptoms, 122
- Nicolotti, Giovanni. *see* Gonthier, Paolo
- Nielsen, Christian N. (and O. Bühler and P. Kristoffersen), Soil water dynamics and growth of street and park trees, 231
- nitrogen**
allocation in walnut foliage, 72(a)
- Nowak, Christopher A. *see* Ballard, Benjamin D.
- Nowak, David J. (and R. Hoehn and D.E. Crane), Oxygen production by urban trees in the United States, 220
- oak (*Quercus spp.*)**
diseases with bleeding canker symptoms, 127
evaluation of decline of bur oak, 22
film-forming polymers for reducing salt injury, 185
Minneapolis oak forests and urbanization, 300(a)
paclobutrazol-induced drought tolerance, 397
response to reduction pruning cuts, 360
transformation of forest spatial structure, 371(a)
for treatment of sudden oak death, 309
- oak wilt**
control with pruning cut, wound dressings, 132
- O'Bryan, Christopher M. (and T.J. Straka, S.R. Templeton, and J.D. Caldwell), Economic patterns in U.S. arboriculture, 292
- Oliver, J.B. *see* Mmbaga, M.T.
- ornamental plants**
principles of plant health, 72(a)
- oxygen**
production in urban trees, 220
- paclobutrazol**
growth regulator, 246
-induced drought tolerance, 397
- park trees**
impact on microclimate, 71(a), 228(a)
soil water dynamics and growth of, 231
- pear (*Pyrus spp.*)**
branch strength of Bradford pear, 283
callery pear cultivars as street trees, 153
- Pennsylvania**
long-term trends in small mammals in rights-of-way, 147

- small mammal populations on electric transmission line areas, 433
- Pentrabark**
for treatment of sudden oak death, 309
- Percival, Glynn C. (and A.M.S. AlBalushi), Paclobutrazol-induced drought tolerance in containerized English and evergreen oak, 397
- Percival, Glynn C. (and G.A. Fraser), The influence of commercial film-forming polymers on reducing salt spray injury in evergreen oak (*Quercus ilex* L.) and laurel (*Prunus laurocerasus* L.), 185
- permethrin**
evaluation for use on bark beetle, 162
- Persea spp. (avocado)**
diseases with bleeding canker symptoms, 126
- pesticides**
biopesticides for foliar disease and Japanese beetle, 210
- pests and pest control.** *see names of specific pests*
Phillips, Nathan. *see* Ford, Chelcy R.
- phosphite**
for treatment of sudden oak death, 309
- photosynthesis**
compost-amended backfill and paved surface effects, 386
- Phytophthora ramorum (sudden oak death)**
disease with bleeding canker symptoms, 122
management of emerging pathogen, 72(a)
treatment with phosphite and Pentrabark, 309
- Pierce's disease**
on landscape trees, 376
- pine beetles, mountain,** 318
- pine engraver beetles,** 228(a)
- Pinus spp. (pine)**
verbenone for mountain pine beetles, 318
- plant health**
in ornamental species, 72(a)
- planting depth**
adverse effects of planting root collar below grade, 64
- poplar (Populus spp.)**
diseases with bleeding canker symptoms, 126
- poplar, yellow (Liriodendron spp.)**
diseases with bleeding canker symptoms, 126
- Populus spp. (poplar)**
diseases with bleeding canker symptoms, 126
- porosity, aeration**
increasing in compacted soils, 140
- pruning**
butterfly, 43
knowledge and attitudes about utility, 264
natural target, 132
oak response to reduction cuts, 360
paints, 132
roots, 43
- Prunus spp.**
diseases with bleeding canker symptoms, 127
film-forming polymers for reducing salt injury, 185
- Pyrus spp. (pear)**
branch strength of Bradford pear, 283
callery pear cultivars as street trees, 153
- qualitative research,** 304
- Quercus spp. (oak)**
diseases with bleeding canker symptoms, 127
evaluation of decline of bur oak, 22
film-forming polymers for reducing salt injury, 185
Minneapolis oak forests and urbanization, 301(a)
paclobutrazol-induced drought tolerance, 397
response to reduction pruning cuts, 360
transformation of forest spatial structure, 371(a)
for treatment of sudden oak death, 309
- Raupp, Michael J. *see* Frank, Steven
- Reed, A. Scott. *see* Ries, Paul D.
- Reiter, Douglas K. *see* Kuhns, Michael R.
- remote sensing**
mapping tree health with multispectral, 229(a)
- Remphrey, W.R. *see* Catton, H.A.
- research methodology**
qualitative, 304
- resistography**
for prediction of tree failure, 76
- Ries, Paul D. (and A.S. Reed and S.J. Kresse), The impact of statewide urban forestry programs: A survey of cities in Oregon, U.S., 168
- rights-of-way**
long-term trends in small mammals, 147
small mammal populations, 433
vegetation management, 435
- riparian areas**
woody plant diversity in urban-rural gradient, 372(a)
- Rivenshield, Angela (and N.L. Bassuk), Using organic amendments to decrease bulk density and increase macroporosity in compacted soils, 140
- Robbins, James A. *see* Gu, Mengmeng
- Rodríguez-Pedraza, Carlos D. *see* Duryea, Mary L.
- Rom, Curt R. *see* Gu, Mengmeng
- root collar**
adverse effects of planting below grade, 64
- rooting space**
hurricanes and urban forests, 98
- roots**
circling, 43
effect of soil decompaction and amendment on growth, 428
mechanical disruption, 43
pruning, 43
- ropes**
friction coefficients, 31
- Rosa spp.**
biopesticides for foliar disease and Japanese beetle, 210
- Russian olive (Elaeagnus spp.)**
diseases with bleeding canker symptoms, 123
- salt injury**
film-forming polymers for reducing, 185
- sapsuckers**
preventing damage to maple, 367
- saw timber**
quantifying urban abundance and quality, 253
- Schmidt, D.J. *see* Garbelotto, M.
- seed sources**
for juniper, 325
- Sherald, James L., Bacterial leaf scorch of landscape trees: What we know and what we do not know, 376. *see also* DeStefano, Darren A.
- Shirazi, A.M. (and S.H. Vogel), Temperature fluctuation in *Fraxinus pennsylvanica* var. *subintegerrima* and its surrounding environment, 193
- shrubs**
influence of irrigation volume and mulch on establishment, 202
- Sifleet, Samantha D. *see* Doccola, Joseph J.
- Smiley, E. Thomas (and D.C. Booth and L.W. Wilkinson), Preventing sapsucker damage on sugar maple (*Acer saccharum*), 367
- Smith, Ian W. *see* Johnstone, Denise M.
- soil amendments**
effect on root growth, 428
organic in compacted soils, 140
- soil water dynamics**
and growth of street and park trees, 231

soils

- decreasing bulk density of compacted, 140
- effect of decompaction on root growth, 428
- urban and tree establishment, 113
- volume and establishment of street trees, 330

Sparrow, Glen R. *see* Borden, John H.

sphagnum

- for decreasing bulk density in compacted soils, 140

St. George, S. *see* Catton, H.A.

storms

- hurricanes and urban forests, 83, 98

Straka, Thomas J. *see* O'Bryan, Christopher M.

streets trees

- assessing hazard of exotic stressors, 350
- callery pear cultivars, 153
- growth in Copenhagen, 330
- soil water dynamics and growth of, 231
- tests on crabapple, 176
- tests on tree lilac, 182

sudden oak death (*Phytophthora ramorum*)

- disease with bleeding canker symptoms, 122
- management of emerging pathogen, 72(a)
- treatment with phosphite and Pentrabark, 309

Sullivan, Joe L. *see* DeStefano, Darren A.

sweetgum (*Liquidambar spp.*)

- diseases with bleeding canker symptoms, 125

Sydnor, T. Davis (and M. Bumgardner and A. Todd), The potential economic impacts of emerald ash borer (*Agrilus planipennis*) on Ohio, U.S., communities, 48

***Syringa spp.* (lilac)**

- tests on tree lilac as street tree, 182

tanoak (*Lithocarpus spp.*)

- diseases with bleeding canker symptoms, 126

temperature

- fluctuations in ash, 193
- leaf area and, 372(a)

Templeton, Scott R. *see* O'Bryan, Christopher M.

***Tilia spp.* (linden)**

- imidacloprid for Japanese beetles, 392

timber

- quantifying urban abundance and quality, 253

Todd, Andrew. *see* Sydnor, T. Davis

transplanting

- growth of birch in first season after transplant, 301(a)
- influence of irrigation volume and mulch on shrub establishment, 202

tree establishment

- compost-amended backfill and paved surface effects, 386
- and fertilizer recommendations, 113
- and soil volume, 330

tree failure

- prediction in eucalypts, 76

tree-of-heaven (*Ailanthus altissima*)

- herbicides for control of, 55

trees. *see also* park trees; street trees

- adverse effects of planting root collar below grade, 64
- bacterial leaf scorch, 376
- benefit-based appraisal, 1
- determining value of, 1
- heritage, 371(a)
- mapping health with multispectral remote sensing, 229(a)

triclopyr

- control of tree-of-heaven, 55

trunk formula method, 1**trunk injection**

- imidacloprid for woolly adelgid control, 12

***Tsuga spp.* (hemlock)**

- imidacloprid for woolly adelgid control, 12
- systemic insecticide application, 421

urban forests and forestry

- carbon credit market cost effectiveness, 371(a)
- decline of bur oak in Winnipeg, 22
- environments for birds, 157(a)
- geospatial methods for information gathering, 300(a)
- and hurricanes, 83, 98
- impact of park trees on microclimate, 71(a), 228(a)
- impact of statewide programs, 168
- knowledge and attitudes about utility pruning, 264
- political ecology, 157(a)
- qualitative research, 304
- quantifying urban saw timber abundance and quality, 253
- residents willing to pay for community forests?, 300(a)
- restoration in Tokyo and Hiroshima following WWII, 229(a)
- social and vegetative structure, 372(a)
- updating inventories, 228(a)

urban trees

- oxygen production in, 220

vegetation management

- on electric transmission line rights-of-way, 435

verbenone

- for treatment of mountain pine beetles, 318

Vogel, S.H. *see* Shirazi, A.M.

Vose, James M. *see* Ford, Chelcy R.

walnut (*Juglans spp.*)

- diseases with bleeding canker symptoms, 125
- N allocation in foliage, 72(a)

water

- transport and wood microstructure, 158(a)
- use in hemlock, 421

Watson, W. Todd. *see* Arnold, Michael A.; Camilli, Kim

Weicherding, Patrick J. (and C.P. Giblin, J.H. Gillman, D.L. Hanson, and G.R. Johnson), Mechanical root-disruption practices and their effect on circling roots of pot-bound *Tilia cordata* Mill. and *Salix alba* L. 'Niobe', 43

Wells, Christina E. *see* Hascher, William Wild, Peter M. *see* Doccola, Joseph J.

wildlife

- long-term trends in rights-of-way, 147
- small mammal populations on electric transmission line areas, 433

Wilkinson, Liza W. *see* Smiley, E. Thomas

wind

- hurricanes and urban forests, 83, 98
- Winn, Brian. *see* Montague, Thayne

wood density

- hurricanes and urban forests, 98

wood microstructure

- and water transport, 158(a)

wood products

- quantifying urban saw timber abundance and quality, 253

wounds

- dressings, 132
- response to trunk-injected imidacloprid, 12

Yahner, Richard H. (and R.T. Yahner and R.J. Hutnik), Long-term trends in small mammals on a right-of-way in Pennsylvania, U.S., 147

Yahner, Richard H. (and R.T. Yahner), Populations of small mammals on an electric transmission line area in southeastern Pennsylvania, U.S., 433

Yahner, Richard T. *see* Yahner, Richard H.