



This Journal of Environmental Horticulture article is reproduced with the consent of the Horticultural Research Institute (HRI – www.hriresearch.org), which was established in 1962 as the research and development affiliate of the American Nursery & Landscape Association (ANLA – <http://www.anla.org>).

HRI's Mission:

To direct, fund, promote and communicate horticultural research, which increases the quality and value of ornamental plants, improves the productivity and profitability of the nursery and landscape industry, and protects and enhances the environment.

The use of any trade name in this article does not imply an endorsement of the equipment, product or process named, nor any criticism of any similar products that are not mentioned.

1991 Volume 9, Numbers 1–4

Subject Index

- abelia**
effect of herbicides on propagation 21
- acclimatization**
in-vitro rose plantlets 181
- Acer** . . . see **maple**
- Aglaonema** . . . see **foliage plants**
- Amelanchier** . . . see **serviceberry**
- amur corktree**
evaluation for midwest landscapes 149
- apple**
transplant survival of 13
- arboreta**
estimating public use of 207
- ash**
response to trickle fertigation 187
soil moisture uptake after transplanting 227
- auxin**
amelanchier/effect on rooting 86
apple/propagation 40
azalea/response to uniconazole 163
azalea/effect of container design 141
azalea/weed control in 9
azalea/production/effect of growth media 33
azalea/effect of uniconazole on flowering 185
azalea/effect of liner transplanting on growth 145
azalea/tolerance to herbicides 196
effect on root structure 61
franklin tree/propagation 40
- bedding plants**
effect of growth retardants on growth 203
- Betula** . . . see **birch**
- biological control**
of black vine weevils 109
with predatory mites 155
- birch**
herbicide tolerance in seed beds 160
response to irrigation 119
- black locust**
tolerance to herbicides 44
- black vine weevil**
control of 109
- botanic gardens**
estimating public use of 207
- boxwood**
production/effect of growth media 33
production/effect of pH on growth 226
propagation/effect of herbicides on 21
- bud break**
in maple 1
- buffaloberry**
propagation by cuttings 218
- Buxus** . . . see **boxwood**
- Calathea** . . . see **foliage plants**
- carnation**
response to growth regulators 191
- Catharanthus** . . . see **periwinkle**
- Cercis** . . . see **redbud**
- Cercocarpus** . . . see **mountain mahogany**
- chemical pruning agents**
effect on carnation 191
- cherry**
gypsy moth larvae feeding on 221
- Chinese pistache**
evaluation for midwest landscapes 149
- Christmas trees**
marketing estimates 173
- compost** 47, 97, 176
- composted sewage sludge**
use as a soil amendment 176
- conifers**
moisture loss in seedlings during storage 92
- container design**
effect on plant establishment 141
- container production**
shade trees/economic feasibility of 105
- copper deficiency**
in Aglaonema 65
- Cornus** . . . see **dogwood**
- crape myrtle**
effect of dormant pruning on growth 88
- Crataegus** . . . see **hawthorn**
- desiccation**
in conifer seedlings 92
tolerance in apple to 13
- Dianthus** . . . see **carnation**
- disease**
drechslera leaf spot of calathea/control of 101
- dogwood**
herbicide tolerance in seed beds 160
- drooping leucothoe**
tolerance to herbicides 196
- Dutch elm disease**
resistance to 211
- elm**
growth of Dutch elm disease fungus 211
- Eugenia psyllid**
chemical control of 137
- Euonymus**
control of black vine weevil 109
effect of growth retardants on 231
- fabric containers**
effect on shade tree growth 187
- fertilization**
shade tree response to 187
- firebrush**
propagation by cuttings 57
- firethorn**
effect of growth retardants on 231
- foliage plants**
drechslera leaf spot/effect of potassium level 101
misting/effect on propagation 199
production of 112
soil temperature on growth of aglaonema 65
- franklin tree**
effect of IBA on budbreak 40
- Franklinia** . . . see **franklin tree**
- Fraxinus** . . . see **ash**
- freeze tolerance**
of magnolia cultivars 116
- geranium**
effect of growth regulators on flowering 203
- germination**
of penstemon seed 51
- Gleditsia** . . . see **honey locust**
- growth medium**
effect on propagation 199
- growth regulators**
effect on bedding plants 203
effect on carnation 191
effect on flowering 185
effect on nursery crops 231
response to uniconazole 163
- Gymnocladus** . . . see **Kentucky coffee tree**
- gypsy moth**
larval feeding on black cherry and yellow-poplar 221
- Hamelia** . . . see **firebrush**
- hardiness**
magnolia grandiflora cultivars 116
- hawthorn**
evaluation for midwest landscapes 149
- herbicide** . . . see **weed control**

herbicide	
propagation by cuttings/effect of	21
tolerance of ericaceous plants	196
trees/tolerance to	44
use in tree seed beds	160
holly	
effect of liner transplanting on growth	145
effect of container design on growth	141
propagation/herbicidal effects on	21
response to uniconazole	163
stock plant nutrition/effect on stem cuttings	83
weed control in	9
honey locust	
tolerance to herbicides	44
hydrophilic polymers	
amendment to growth media	119
Ilex . . . see holly	
insecticide	
rhododendron midge gall/control of	68
irrigation	
effect on growth of photinia	79
in container production	33
response to frequency	119
Juniperus . . . see juniper, red cedar	
juniper	
estimates for Christmas tree production	173
weed control in	9
Kalmia . . . see mountain laurel	
Kentucky coffee tree	
tolerance to herbicides	44
Lagerstroemia . . . see crape myrtle	
landscape fabrics	
evaluation of	38
landscape maintenance	
with landscape fabrics	38
leucothoe . . . see native plants, drooping leuchothoe	
Ligustrum . . . see privet	
limestone	
effect on growth of boxwood	226
linden	
response to trickle fertigation	187
Liriodendron . . . see yellow-poplar	
locust	
response to trickle fertigation	187
Lupinus . . . see Texas bluebonnet	
magnolia	
hardiness evaluation of cultivars	116
Malus . . . see apple	
maple	
chilling and bud break	1
evaluation for midwest landscapes	149
herbicide tolerance in seed beds	160
response to NaCl applications	130
response to trickle fertigation	187
marigold	
effect of growth regulators on flowering	203
marketing	
buyer perception of trade shows	75
media	
thermal dynamics of	24
use of cotton waste	112
micropagation	
effect on root structure	61
in maple	1
mountain laurel	
tolerance to herbicides	196
mountain mahogany	
evaluation for midwest landscapes	149
mountain pieris	
response to uniconazole	163
municipal compost	
use in perennial plant production	47
NaCl applications	
tree seedling responses to	130
native plants	
leucothoe/seed germination	72
penstemon/seed germination	51
propagation of	5, 17
nursery stock	
tolerance to herbicides	9
nutrition	
in holly stem cuttings	83
nutritional status	
influence of trickle fertigation on	187
oak	
evaluation for midwest landscapes	149
herbicide tolerance in seed beds	160
response to NaCl applications	130
root injury from soil acidification	102
pear	
evaluation for midwest landscapes	149
Pelagorium . . . see geranium	
penstemons	
seed germination	51
perennials	
growth in composted media	47
periwinkle	
growth in media amended with composted sewage sludge	176
Phellodendron . . . see amur corktree	
photinia	
irrigation regimes on growth	79
weed control in	9
Picea . . . see spruce	
Pieris . . . see mountain pieris	
pine	
marketing estimates for Christmas tree production	173
Pinus . . . see pine	
Pistacia . . . see Chinese pistache	
Pittosporum . . . see foliage plants	
predatory mites	
use as a biological control agent	155
privit	
effect of growth retardants on	231
effect of liner transplanting on growth	145
production systems	
economic feasibility of	105
propagation	
acclimatization of in-vitro rose plantlets	181
amelanchier/auxin effects on rooting	86
buffaloberry of	218
effect of IBA	40
effects of herbicides on	21
effect of mist water quality on	199
firebush/stem cuttings	57
in rhododendron	5
in silver maple	1
leucothoe/seed germination of	72
of rotundifolia holly stem cuttings	83
penstemon/seed germination of	51
stock plant effects	123
weigela	123
Prunus . . . see cherry	
Pryus . . . see pear	
Pyracantha . . . see firethorn	
Quercus . . . see oak	
rebbud	
effect of light level on transpiration rates	215
growth rates of	215
herbicide tolerance in seed beds	160
red cedar	
estimates for Christmas tree production of	173
resource economics	
use of arboreta	207
rhododendron	
rhododendron gall midge/control of	68
tolerance to herbicides	196
Robinia . . . see black locust	
rodent control	
use of rodenticides	167
rodenticides	
use in orchards	167
rooting	
of apple rootstocks	40
Rosa . . . see rose	

rose	
acclimatization of in-vitro plantlets	181
response to red-far-red light in	127
seed germination	
effect of light and temperature on	72
influence of light and temperature on	5
seed propagation	
of lupine.....	17
of rhododendron	5
serviceberry	
effect of auxin on rooting.....	86
sewage sludge	
use as a soil amendment.....	176
shade tree	
effect of trickle fertigation in.....	187
Shepherdia . . . see buffaloberry	
spruce	
seedlings/moisture loss during storage.....	92
stock plant nutrition	
influence on rooting	83
subirrigation	
.....	33
Tagetes . . . see marigold	
temperature	
dynamics in container media	24
Texas bluebonnet	
seed propagation of	17
Tilia . . . see linden	
tissue culture . . . see micro-propagation	
trade shows	
buyer perceptions of	75
transplant survival	
in apple	13
transplanting	
effect on liners.....	145
impact on soil moisture uptake.....	227
in apple	13
Ulmus . . . see elm	
viburnum	
effect of container design	141
vole control	
use of rodenticides	167
water use efficiency	
in container grown plants	79, 119
weed control	
in field grown holly	29
in nursery stock	9
in the landscape	9
in tree seed beds	160
in tree seedlings	44
tolerance of Ericaceous plants	196
with landscape fabrics	38
weigela	
growth habit as affected by propagation	123
yellow-poplar	
gypsy moth larvae feeding on	221

Author Index

Acedo, J.R.....	3, 72
Anderson, P.C.....	215
Ashby, W.C.....	1
Banko, T.J.....	33
Bassuk, N.L.....	40, 130
Blazich, F.A.....	3, 72, 141, 163
Bowman, D.C.....	176
Bresnan, D.F.....	1
Broschat, T.K.....	97, 101
Bugbee, G.J.....	47
Bull, B.C.....	109
Byers, R.E.....	167
Cameron, A.C.....	92
Carbaugh, D.H.....	167
Case, L.J.....	221
Chase, A.R.....	101
Chen, T.H.H.....	13
Chinery, D.H.....	105
Chong, C.....	187
Clark, D.G.....	127
Cline, R.A.....	187
Conover, C.A.....	65
Davis, T.D.....	17, 57
Dawson, C.....	36
Decoteau, D.R.....	127
Derr, J.F.....	9
Devitt, D.A.....	176
Dirr, M.A.....	116
Domir, S.C.....	211
Downer, A.J.....	137
Downing, M.....	207
Dumroese, R.K.....	119
Endress, A.G.....	221
Fiorkowski, W.J.....	173
Foley, J.T.....	191
Foster, W.J.....	203
Frink, C.R.....	47
Fuchigami, L.H.....	13
Gallitano, L.B.....	196
George, M.W.....	119
George, S.W.....	17, 57
Geyer, W.A.....	44
Ghrist, A.C.....	123
Gibbons III, F.D.....	149
Gilliam, C.H.....	21, 29, 38
Hanula, J.....	68
Haydu, J.J.....	75
Headley, D.B.....	130
Hensley, D.L.....	149
Huetteman, C.A.....	1
Hughes, H.....	218
Ichida, J.M.....	211
Ingram, D.L.....	24
Jeffords, M.R.....	221
Johnson, W.A.....	36
Keever, G.J.....	185, 191, 203
Kelly, J.W.....	127
Kitchen, S.G.....	51
Knight, S.L.....	181
Knox, G.W.....	215
Koehler, C.S.....	137
Krishnan, S.....	218
Kupkowski, G.....	102, 227
Laiche Jr., A.J.....	145
Leda, C.E.....	226
Lefevre, R.E.....	92
Lindstrom Jr., O.M.....	116, 173
Lombard, P.....	13
Long, C.E.....	44, 149
Lumis, G.P.....	187
Lyons Jr., C.G.....	79
Martin, C.A.....	24, 38
McCelland, M.T.....	61
McFarland, M.J.....	88
McGuire, J.J.....	36
McGuire, J.A.....	185
Meerow, A.W.....	75
Meyer, S.E.....	51
Migneault, D.....	47
Mizel III, R.F.....	155
Moorhead, D.J.....	173
Morris, R.L.....	176
Murakami, P.....	13
Norcini, J.G.....	215, 231

Owen, N.P.	109	Steinberg, A.L.	88
Paine, T.D.	137	Stephens, L.C.	123
Pair, J.C.	149	Still, S.M.	86
Parsons, J.	17, 57	Struve, D.K.	105
Peterson, N.C.	92	Sun, W.Q.	40
Ponder, H.G.	38		
Poole, R.T.	65	Thetford, M.	21, 163
Preece, J.E.	1	Timmermann, R.	61
		Tripepi, R.R.	119
Raupp, M.J.	109	Upadhyaya, A.	17, 57
Reece, W.M.	3		
Rein, W.H.	83	von der Heide, K.	102
Rhodus, T.	105		
Roberts, R.K.	207	Wang, Y.T.	112, 199
Rogers, R.B.	181	Warren, S.L.	3, 72, 141, 160, 163, 196
Roth, P.L.	1	Watson, G.W.	102, 227
		Wehtje, G.	29
Sadof, C.S.	109	Weigle, J.L.	123
Satterthwaite, L.N.	65	Welch, D.F.	79
Schiffhauer, D.E.	155	Wenny, D.L.	119
Schreiber, L.R.	211	Whitehead, R.O.	72
Sitaras, G.	75	Wiest, S.C.	149
Skruch, W.A.	160, 196	Wolf, D.D.	83
Smith II, L.M.	221	Wright, R.D.	83, 226
Smith, M.A.L.	61, 181		
Stefani, M.A.	33	Zajicek, J.M.	79, 88
		Zanon, S.	86