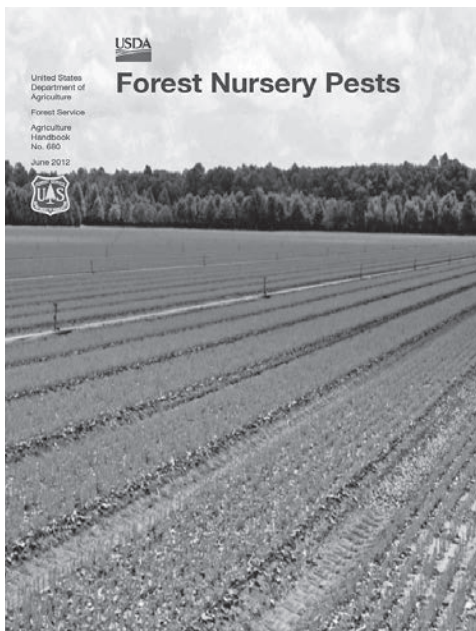
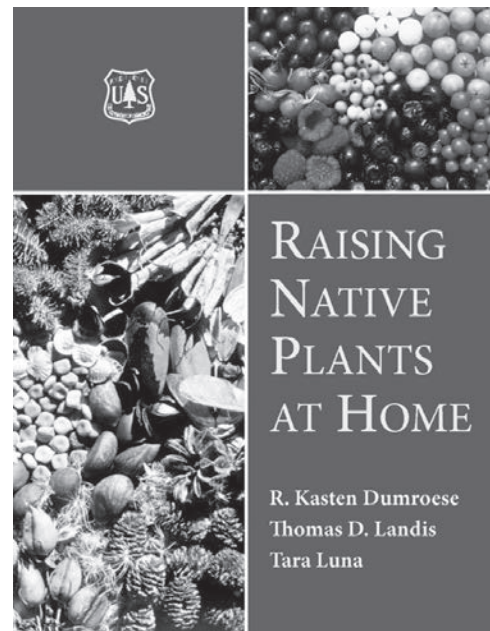


Special Order Publications



Forest Nursery Pests
Michelle M Cram, Michelle S Frank, and
Katy M Mallams, Technical Coordinators
June 2012
Agriculture Handbook 680.
USDA Forest Service, Washington, DC
202 p.



**Raising Native Plants in Nurseries:
Basic Concepts**
R. Kasten Dumroese, Thomas D. Landis and Tara Luna
June 2012
General Technical Report RMRS-GTR-274.
USDA Forest Service, Fort Collins, CO
84 p.

To Order Either of these Publications:

A limited number of hard copies are available from:
USDA-FS, Rocky Mountain Station
240 West Prospect Road • Fort Collins, CO 80526;
TEL: 970.498.1392
E-mail: rschneider@fs.fed.us

Both of these publications can be read or downloaded in Adobe PDF format from the RNGR website:
<http://rngr.net>

A compact disk with all the following journal articles or publications in Adobe PDF format can be ordered using the Literature Order Form on the last page of this section. Note the 2 restrictions:

- 1. Copyrighted Material.** Items with © are copyrighted and require a fee for each copy, so we will only send you the title page and abstract. If you want the entire article, you can order copies on-line or from a library service.
- 2. Special Orders (SO).** Special orders are books or other publications that, because of their size or cost, require special handling. For some, the Forest Service has procured copies for free distribution, but others will have to be purchased. Prices and ordering instructions are given following each listing in the New Nursery Literature section.

Business Management



- 1. © Building a nursery network in California's central coast region.** Serrill, W. D. *Native Plants Journal* 12(3):285-288. 2011.
- 2. Commercialisation and international market potential of Finnish silvicultural machines.** Hallongren, H. and Rantala, J. *Silva Fennica* 46(4):583-593. 2012.
- 3. Nursery costing: the "easy" way.** Ehrich, L. *International Plant Propagators' Society, combined proceedings 2011*, 61:43-48. 2012.
- 4. Nursery footprint — a carbon footprinting tool for the Australian nursery and garden industry.** Kachenko, A. G. and Putland, D. *International Plant Propagators' Society, combined proceedings 2011*, 61:64-69. 2012.
- 5. Recycling plastic: how to reduce and amount of plastic ending up in landfills.** Newman, J. *Greenhouse Management* 32(2):18-21. 2012.
- 6. Reduce greenhouse production costs.** Latimer, J. G. *American Nurseryman* 210(4):18-20, 22-23. 2012.
- 7. A sustainable dream: Sara Kral builds a native plant nursery that reflects her values.** Kipp, C. *Digger* 56(6):17-19. 2012.

Container Production



- 8. Determining trace gas flux from container-grown woody ornamentals.** Marble, S. C., Prior, S. A., Runion, G. B., and Torbert, H. A. *International Plant Propagators' Society, combined proceedings 2011*, 61:469-475. 2012.
- 9. Managing algae in the greenhouse.** Pundt, L. *Greenhouse Management* 32(10):16. 2012.
- 10. New pots and procedures for propagating landscape trees.** Lawton, P. *International Plant Propagators' Society, combined proceedings 2011*, 61:76-82. 2012.
- 11. © An overview of climate and crop yield in closed greenhouses.** de Gelder, A., Dieleman, J. A., Bot, G. PA., and Marcelis, L. F. M. *Journal of Horticultural Science & Biotechnology* 87(3):193-202. 2012.
- 12. © Propagation protocol for bigtooth maple (*Acer grandidentatum* Nutt.).** Woodruff, K. J., Regan, D. J., and Davis, A. S. *Native Plants Journal* 13(3):191-194. 2012.
- 13. Safe procurement and production manual: a systems approach for the production of healthy nursery stock.** Griesbach, J. A., Parke, J. L., Chastagner, G. A., Grunwald, N. J., and Aguirre, J. *Oregon Association of Nurseries, Wilsonville, OR*. 2011.



- 14. *Aronia*: cultural and production considerations as an alternative crop.** Ristvey, A. G. and Mathew, S. A. International Plant Propagators' Society, combined proceedings 2011, 61:463-468. 2012.
- 15. © Assessing ecosystem function of restoration plantings in south-eastern Australia.** Munro, N. T., Fischer, J., Wood, J., and Lindenmayer, D. B. Forest Ecology and Management 282:36-45. 2012.
- 16. © Biology, ecology, and conservation of Navasota ladies' tresses (*Spiranthes parksii* Correll), an endangered terrestrial orchid of Texas.** Wonkka, C. L., Rogers, W. E., Smeins, F. E., and Hammons, J. R. Native Plants Journal 13(3):237-243. 2012.
- 17. © Boiling water scarification plus stratification improves germination of *Iliamna rivularis* (Malvaceae) seeds.** Himanen, K., Nygren, M., and Dumroese, R. K. Native Plants Journal 13(3):244-254. 2012.
- 18. California native plants: easier to promote than to propagate.** Evans, M. International Plant Propagators' Society, combined proceedings 2011, 61:202-203. 2012.
- 19. © Chilling requirements to break dormancy of *Veratrum californicum*.** Sun, Y., White, S. A., Mann, D., and Adelberg, J. HortScience 47(12):1710-1713. 2012.
- 20. © Comparison of floristic diversity between young conifer plantations and second-growth adjacent forests in California's northern interior.** James, C. E., Krumland, B., and Taylor, D. W. Western Journal of Applied Forestry 27(2):60-71. 2012.
- 21. © Conservation and reintroduction of the endangered Willamette daisy: effects of population size on seed viability and the influence of local adaptation.** Thorpe, A. S. and Kaye, T. N. Native Plants Journal 12(3):289-298. 2011.
- 22. © Cultivation and irrigation of fernleaf biscuit-root (*Lomatium dissectum*) for seed production.** Shock, M. P., Shock, C. C., Feibert, E. B. G., and Shaw, N. L. HortScience 47(10):1525-1528. 2012.
- 23. © The desert fan palm *Washingtonia filifera*.** Purcell, J. Native Plants Journal 13(3):184-188. 2012.
- 24. © Dormancy and germination pre-treatments in Willamette Valley native plants.** Russell, M. Northwest Science 85(2):389-402. 2011.
- 25. © Effect of fungicide on Wyoming big sagebrush seed germination.** Cox, R. D., Kosberg, L. H., Shaw, N. L., and Hardegee, S. P. Native Plants Journal 12(3):263-267. 2011.
- 26. Effect of magnetic field treatment on germination of medicinal plants *Salvia officinalis* L. and *Calendula officinalis* L.** Florez, M., Martinez, E., and Carbonell, M. V. Polish Journal of Environmental Studies 21(1):57-63. 2012.
- 27. © Effects of seed source and pre-planting treatment on emergence of *Juniperus scopulorum* Sarg. in a Great Plains nursery.** Tauer, P. K., Will, R. E., and Porterfield, J. D. Native Plants Journal 12(3):241-248. 2011.
- 28. Fruits, seeds and germination in five species of globose Cactaceae (Cactaceae).** Loza-Cornejo, S., Terrazas, T., and Lopez-Mata, L. Interciencia 37(3):197-203. 2012.
- 29. © Genecology and seed zones for Indian ricegrass collected in the southwestern United States.** Johnson, R. C., Cashman, M. J., and Vance-Borland, K. Rangeland Ecology and Management 65:523-532. 2012.
- 30. © Germination in five shrub species of Maritime Pine understory — does seed provenance matter?** Vasques, A., Maia, P., Pedro, M., and Santos, C. Annals of Forest Science 69:499-507. 2012.
- 31. © Germination of three native *Lupinus* species in response to temperature.** Elliott, C. W., Fischer, D. G., and LeRoy, C. J. Northwest Science 85(2):403-410. 2011.
- 32. © Germination response of grassland species to plant-derived smoke.** Schwilk, D. W. and Zavala, N. Journal of Arid Environments 79:111-115. 2012.
- 33. Growth of cane (*Arundinaria sensu stricto*), the mysterious native bamboo of North America.** Campbell, J. J. N. International Plant Propagators' Society, combined proceedings 2011, 61:334-345. 2012.
- 34. © Impact of seedbed and water level on the establishment of plant species associated with bog pools.** Landry, T., Rochefort, L., and Poulin, M. Native Plants Journal 13(3):205-215. 2012.

35. © **In vitro propagation of *Trillium* species with notes on root formation, cleaning protocols, and media formulations.** Gagliardo, R., Labarthe, M., Zaic, M., and Cruse-Sanders, J. *Native Plants Journal* 13(1):56-63. 2012.
36. **Irrigation, organic fertilization and species successional stage modulate the response of woody seedlings to herbaceous competition in a semi-arid quarry restoration.** Soliveres, S., Moneris, J., and Cortina, J. *Applied Vegetation Science* 15:175-186. 2012.
37. © **Local adaptation and the effects of grazing on the performance of *Nassella pulchra*: implications for seed sourcing in restoration.** Hufford, K. M. and Mazer, S. J. *Restoration Ecology* 20(6):688-695. 2012.
38. © **Mating system analysis of *Alnus maritima* (Seaside alder), a rare riparian tree.** Jones, J. M. and Gibson, J. P. *Castanea* 77(1):11-20. 2012.
39. © **A molecular and fitness evaluation of commercially available versus locally collected blue lupine *Lupinus perennis* L. seeds for use in ecosystem restoration efforts.** Gibbs, J. P., Smart, L. B., Newhouse, A. E., and Leopold, D. J. *Restoration Ecology* online. 2012.
40. © **Monitoring roadside revegetation projects.** Steinfeld, D., Kern, J., Gallant, G., and Riley, S. *Native Plants Journal* 12(3):269-275. 2011.
41. © **No-till drill planting of Texas bluegrass on the southern plains.** Goldman, J. J. *Native Plants Journal* 13(1):51-54. 2012.
42. © **Non-native grass removal and shade increase soil moisture and seedling performance during Hawaiian dry forest restoration.** Thaxton, J. M., Cordell, S., Cabin, R. J., and Sandquist, D. R. *Restoration Ecology* 20(4):475-482. 2012.
43. **Optimization of select native seed propagation.** Huff, S. H., Harkness, R. L., Baldwin, B. S., Bachman, G. R., and Blythe, E. K. *International Plant Propagators' Society, combined proceedings 2011*, 61:499-504. 2012.
44. © **Outplanting but not seeding establishes native desert perennials.** Abella, S. R., Craig, D. J., and Suazo, A. A. *Native Plants Journal* 13(2):81-89. 2012.
45. © **Partial shade, irrigation, and added nutrients maximize dry matter yield of American skullcap (*Scutellaria lateriflora* L.).** Similien, A., Shannon, D. A., Wood, C. W., and van Santen, E. *HortScience* 47(2):1705-1709. 2012.
46. **Propagating sweet fern.** Lubell, J. *American Nurseryman* 210(4):26-29. 2012.
47. © **Propagation methods for *Washingtonia filifera* (Linden ex Andre) H. Wendl. (Arecaceae).** Luna, T. *Native Plants Journal* 13(3):217-221. 2012.
48. © **Propagation of *Vaccinium membranaceum* and *V. myrtilloides* by seeds, hardwood stem, and rhizome cutting methods.** McKechnie, I. M., Burton, P. J., and Massicotte, H. B. *Native Plants Journal* 13(3):223-234. 2012.
49. © **Propagation protocol for blackbrush (*Coleogyne ramosissima* Torr. [Rosaceae]).** Graham, J. *Native Plants Journal* 13(3):201-203. 2012.
50. © **Propagation protocol for mountain huckleberry (*Vaccinium membranaceum*).** Regan, D. J., Woodruff, K. J., and Davis, A. S. *Native Plants Journal* 13(1):14-18. 2012.
51. **Raising native plants in nurseries: basic concepts.** Dumroese, R. K., Landis, T. D., and Luna, T. *USDA Forest Service, Rocky Mountain Research Station, General Technical Report RMRS-GTR-274*. 2012. 84 p. See page 33 for how to order a free copy.
52. © **Reduction of seed dormancy of *Echinacea pallida* (Nutt.) Nutt. by in-dark seed selection and breeding.** Qu, L. and Widrlechner, M. P. *Industrial Crops and Products* 36:88-93. 2012.
53. © **Response of selected wildflower species to saline water irrigation.** Niu, G., Rodriguez, D. S., and McKenney, C. *HortScience* 47(9):1351-1355. 2012.
54. © **Restoring the rare Kentucky lady's slipper orchid to the Kisatchie National Forest.** Barnett, J. P., Allen, K., and Moore, D. *Native Plants Journal* 13(2):98-106. 2012.
55. © **Reviving, in vitro differentiation, development, and micropropagation of the rare and endangered moss *Bruchia vogesiaca* (Bruchiaceae).** Sabovljevic, M., Vujicic, M., Sekulic, J. S., and Segarra-Moragues, J. G. *HortScience* 47(9):1347-1350. 2012.
56. **Rooting success of summer softwood cuttings of box huckleberry (*Gaylussacia brachycera*).** Kidwell-Slak, D. and Pooler, M. *International Plant Propagators' Society, combined proceedings 2011*, 61:398-401. 2012.
57. © **Safening of native grass to herbicides by using carbon bands.** Grichar, W. J., Lloyd-Reilley, J., Rahmes, J., Ocumpaugh, W. R., and Foster, J. L. *Weed Technology* 26:499-505. 2012.

- 58. Sagebrush steppe restoration final report.** Sands, A. and Moser, A. Idaho Department of Fish and Game, March 24, 2012. 19 p. 2012.
- 59. © Seed-feeding insects impacting globemallow seed production.** Hammon, R. and Franklin, M. Native Plants Journal 13(2):95-97. 2012.
- 60. © Seed germination ecology of three imperiled plants of rock outcrops in the southeastern United States.** Albrecht, M. A. and Penagos Z., J. C. Journal of the Torrey Botanical Society 139(1):86-95. 2012.
- 61. Seed propagation of several high-elevation California natives.** Funston, N. International Plant Propagators' Society, combined proceedings 2011, 61:204-206. 2012.
- 62. © Seed treatment optimizes benefits of seed bank storage for restoration-ready seeds: the feasibility of prestorage dormancy alleviation for mine-site revegetation.** Turner, S. R., Steadman, K. J., Vlahos, S., Koch, J. M., and Dixon, K. W. Restoration Ecology online. 2012.
- 63. © Seed weights for northern Rocky Mountain native plants, with an emphasis on Glacier National Park.** Wiese, J. L., Meadow, J. F., and Lapp, J. A. Native Plants Journal 13(1):39-49. 2012.
- 64. © Simple sequence repeat markers from *Cercis canadensis* show wide cross-species transfer and use in genetic studies.** Wadl, P. A., Trigiano, R. N., Werner, D. J., Pooler, M. R., and Rinehart, T. A. Journal of the American Society for Horticultural Sciences 137(3):189-201. 2012.
- 65. © Soil seedbanks and long-term seed survival in the endangered Florida beach clusterine (*Jacquemontia reclinata* House [Convolvulaceae]).** Pascarella, J. B., Maschinski, J., and Wright, S. J. Native Plants Journal 12(3):233-240. 2011.
- 66. © Some insects affecting *Penstemon* seed production.** Hammon, R. and Franklin, M. Native Plants Journal 13(2):107-110. 2012.
- 67. © Survival of bristly locust (*Robinia hispida* L.) in an emulated organic silvopasture.** Burner, D. M. and Burke, J. M. Native Plants Journal 13(3):195-200. 2012.
- 68. © Unknown and unprotected: the imperiled genetic resource of native plant populations on roadsides and private lands.** Boyer, L. Native Plants Journal 12(3):276-284. 2012.
- 69. Using tree shelters as deep containers.** Bainbridge, D. A. Tree Planters' Notes 55(2):49-54. 2012.
- 70. © Viability of blackbrush seed (*Coleogyne ramosissima* Torr. [Rosaceae]).** Pendleton, R. L., Pendleton, B. K., Meyer, S. E., Carlson, S., and Morrison, E. Native Plants Journal 13(1):5-13. 2012.



- 71. © Autumn fertilization with nitrogen improves nutritional status, cold hardiness and the oxidative stress responses of Holm oak (*Quercus ilex* ssp. *ballota* [Desf.] Samp) nursery seedlings.** Andivia, E., Marquez-Garcia, B., Vazquez-Pique, J., Cordoba, F., and Fernandez, M. Trees 26:311-320. 2012.
- 72. © Cultivation of Norway spruce and Scots pine on organic nitrogen improves seedlings morphology and field performance.** Gruffman, L., Ishida, T., Nordin, A., and Nasholm, T. Forest Ecology and Management 276:118-124. 2012.
- 73. © Developing a vegetable fertility program using organic amendments and inorganic fertilizers.** Ozores-Hampton, M. HortTechnology 22(6):743-. 2012.
- 74. Effect of fall-applied nitrogen on growth, nitrogen storage, and frost hardiness of bareroot *Larix olgensis* seedlings.** Li, G., Liu, Y., Zhu, Y., Li, Q., and Dumroese, R. K. Silva Fennica 46(3):345-354. 2012.
- 75. © Effects of fertilizer placement on trace gas emissions from nursery container production.** Marble, S. C., Prior, S. A., Runion, G. B., and Torbert, H. A. HortScience 47(8):1056-1062. 2012.
- 76. © The feasibility of organic nutrient management in large-scale sweet corn production for processing.** Johnson, H. J., Colquhoun, J. B., and Bussan, A. J. HortTechnology 22(1):25-36. 2012.
- 77. © Fertilizer properties of DCHA/Fe³⁺.** Nadal, P., Garcia-Marco, S., Escudero, R., and Lucena, J. J. Plant and Soil 356-367-379. 2012.

78. © Irrigation frequency alters nutrient uptake in container-grown *Rhododendron* plants grown with different rates of nitrogen. Scagel, C. F., Bi, G., Fuchigami, L. H., and Regan, R. P. HortScience 47(2):189-197. 2012.

79. © Methods for determining nitrogen release from controlled-release fertilizers used for vegetable production. Carson, L. C. and Ozores-Hampton, M. HortTechnology 22(1):20-24. 2012.

80. Navigating the organic route: how to use organic fertilizers. Burnett, S. Greenhouse Management 32(1):67-69. 2012.

81. © Nursery response of container *Pinus palustris* seedlings to nitrogen supply and subsequent effects on outplanting performance. Jackson, D. P., Dumroese, R. K., and Barnett, J. P. Forest Ecology and Management 265:1-12. 2012.

82. © Nutrient and water availability alter belowground patterns of biomass allocation, carbon partitioning, and ectomycorrhizal abundance in *Betula nigra*. Kleczewski, N. M., Herms, D. A., and Bonello, P. Trees 26:525-533. 2012.

83. © Nutrient limitation on terrestrial plant growth — modeling the interaction between nitrogen and phosphorus. Agren, G. I., Wetterstedt, A. M., and Billberger, M. F. K. New Phytologist 194:953-960. 2012.

84. © Past, present and future of organic nutrients. Paungfoo-Lonhienne, C., Visser, J., Lonhienne, T. G. A., and Schmidt, S. Plant and Soil 359:1-18. 2012.

85. © Review: nitrogen assimilation in crop plants and its affecting factors. Mokhele, B., Zhan, X., Yang, G., and Zhang, X. Canadian Journal of Plant Sciences 92:399-405. 2012.

86. Running right: maintaining and calibrating your fertilizer injector may be the best money you spend. Kelly, L. Greenhouse Management 32(5):52-54. 2012.

87. © Vermicompost leachate alleviates deficiency of phosphorus and potassium in tomato seedlings. Arthur, G. D., Aremu, A. O., Kulkarni, M. G., and Van Staden, J. HortScience 47(9):1304-1307. 2012.

General and Miscellaneous



88. Climatic consequences of afforestation. Fung, I. and Swann, A. IN: Physics of sustainable energy II: using energy efficiently and producing it renewably. AIP Conference Proceedings 1401:211-219. 2011.

89. © Decentralization of tree seedling supply systems for afforestation in the west of Yunnan Province, China. He, J., Yang, H., Jamnadass, R., Xu, J., and Yang, Y. Small-scale Forestry 11:147-166. 2012.

90. © Designing Nelder wheel plots for tree density experiments. Parrott, D. L., Brinks, J. S., and Lhotka, J. M. New Forests 43:245-254. 2012.

91. © Do eucalypt plantations provide habitat for native forest biodiversity? Calvino-Cancela, M., Rubido-Bara, M., and van Etten, E. J. B. Forest Ecology and Management 270:153-162. 2012.

92. Forestry and tree planting in New York State. Verschoor, K. and Van Duyne, G. Tree Planters' Notes 55(2):4-13. 2012.

93. Forestry and tree planting in Virginia. Garrison, C. E. Tree Planters' Notes 55(2):24-33. 2012.

94. Laws affecting reforestation on USDA Forest Service lands. Watrud, E., Zensen, F., and Darbyshire, R. Tree Planters' Notes 55(2):39-42. 2012.

95. Nebraska: the tree planters' state. Evans, N. and Erdkamp, B. Tree Planters' Notes 55(2):14-23. 2012.

96. © Reforestation strategies amid social instability: lessons from Afghanistan. Groninger, J. W. Environmental Management 49:833-845. 2012.

97. © Restoring forests: advances in techniques and theory. Oliet, J. A. and Jacobs, D. F. New Forests 43:535-541. 2012.

98. Selection and production of Mexico oaks. Creech, D. International Plant Propagators' Society, combined proceedings 2011, 61:436-441. 2012.

Genetics and Tree Improvement



- 99. © Assessment of genetic diversity in two-species oak seed stands and their progeny populations.** Dering, M. and Chybicki, I. *Scandinavian Journal of Forest Research* 27:2-9. 2012.
- 100. © Assisted migration: introduction to a multifaceted concept.** Ste-Marie, C., Nelson, E. A., Dabros, A., and Bonneau, M.-E. *Forestry Chronicle* 87(6):724-730. 2011.
- 101. © Assisted migration: uncertainty, risk and opportunity.** Park, A. and Talbot, C. *Forestry Chronicle* 88(4):412-419. 2012.
- 102. © Carbon sequestration from 40 years of planting genetically improved loblolly pine across the southeast United States.** Aspinwall, M. J., McKeand, S. E., and King, J. S. *Forest Science* 58(5):446-456. 2012.
- 103. Climate change and forest trees in the Pacific Northwest: guide to vulnerability assessment methodology.** Devine, W., Aubry, C., Miller, J., Potter, K., and Bower, A. *USDA Forest Service, Pacific Northwest Region*. 48 p. 2012.
- 104. © Determining suitable locations for seed transfer under climate change: a global quantitative method.** Potter, K. M. and Hargrove, W. W. *New Forests* 43:581-599. 2012.
- 105. © Ecotypic mode of regional differentiation of black cottonwood (*Populus trichocarpa*) due to restricted gene migration: further evidence from a field test on the northern coast of British Columbia.** Xie, C.-Y., Carlson, M. R., and Ying, C. C. *Canadian Journal of Forest Research* 42:400-405. 2012.
- 106. © Failure to migrate: lack of tree range expansion in response to climate change.** Zhu, K., Woodall, C. W., and Clark, J. S. *Global Change Biology* 18:1042-1052. 2012.
- 107. © Financial performance of using genetically improved regeneration material of Scots pine (*Pinus sylvestris* L.) in Finland.** Ahtikoski, A., Ojansuu, R., Haapanen, M., Hynynen, J., and Karkkainen, K. *New Forests* 43:335-348. 2012.
- 108. © Genetic variation between and within ex-situ native-provenance collections of *Pinus radiata* D. Don planted in Australia and New Zealand.** Bian, L., Gapare, W. J., Ivkovic, M., Jefferson, P., and Wu, H. X. *Silvae Genetica* 60(6):276-285. 2011.
- 109. © Genetic variation in needle epicuticular wax characteristics in *Pinus pinceana* seedlings.** Ramirez-Herrera, C., Percy, K. E., Loo, J. A., Yeates, L. D., and Vargas-Hernandez, J. *Silvae Genetica* 60(5):210-215. 2011.
- 110. © Growth phenology of coast Douglas-fir seed sources planted in diverse environments.** Gould, P. J., Harrington, C. A., and St. Clair, J. B. *Tree Physiology* 32:1482-1496. 2012.
- 111. © The implementation of assisted migration in Canadian forests.** Pedlar, J. H., McKenney, D. W., Beaulieu, J., and Colombo, S. J. *Forestry Chronicle* 87(6):766-777. 2011.
- 112. Long-distance gene flow and adaptation of forest trees to rapid climate change.** Kremer, A., Ronce, O., Robledo-Arnuncio, J. J., and Guillaume, F. *Ecology Letters*. 2012.
- 113. © Optimization of genetic gain and diversity in seed orchard crops considering variation in seed germination.** Funda, T., Lstiburek, M., Klapste, J., and El-Kassaby, Y. A. *Scandinavian Journal of Forest Research* 27:787-793. 2012.
- 114. © Physiological and morphological attributes of shortleaf x loblolly pine F1 hybrid seedlings: is there an advantage to being a hybrid?** Lilly, C. J., Will, R. E., and Tauer, C. G. *Canadian Journal of Forest Research* 42:238-246. 2012.
- 115. © Placing forestry in the assisted migration debate.** Pedlar, J. H., McKenney, D. W., Aubin, I., and Beardmore, T. *BioScience* 62(9):835-842. 2012.
- 116. © Rapid climate change and the rate of adaptation: insight from experimental quantitative genetics.** Shaw, R. G. and Etterson, J. R. *New Phytologist* 195:752-765. 2012.
- 117. © Review of science-based assessments of species vulnerability: contributions to decision-making for assisted migration.** Beardmore, T. and Winder, R. *Forestry Chronicle* 87(8):745-754. 2011.

118. © Why we disagree about assisted migration: ethical implications of a key debate regarding the future of Canada's forests. Aubin, I., Garbe, C. M., Colombo, S., and Drever, C. R. *Forestry Chronicle* 87(6):755-765. 2011.

119. Widespread triploidy in western North American aspen (*Populus tremuloides*). Mock, K. E., Callahan, C. M., Islam-Faridi, M. N., and Shaw, J. D. *Plos One* 7(10):e48406. 2012.



120. © Ectomycorrhizal networks of *Pseudotsuga menziesii* var. *glauca* trees facilitate establishment of conspecific seedlings under drought. Bingham, M. A. and Simard, S. *Ecosystems* 15:188-199. 2012.

121. © Effects of resident soil fungi and land use history outweigh those of commercial mycorrhizal inocula: testing a restoration strategy in unsterilized soil. Paluch, E. C., Thomsen, M. A., and Volk, T. J. *Restoration Ecology* online. 2012.

122. © Establishment, persistence and effectiveness of arbuscular mycorrhizal fungal inoculants in the field revealed using molecular genetic tracing and measurement of yield components. Pellegrino, E., Turriani, A., Gamper, H. A., and Cafa, G. *New Phytologist* 194:810-822. 2012.

123. © Mycorrhizal symbiosis affected by different genotypes of *Pinus pinaster*. Sousa, N. R., Ramos, M. A., Franco, A. R., Oliveira, R. S., and Castro, P. M. L. *Plant and Soil* 359:245-253. 2012.

124. © Widespread fitness alignment in the legume-rhizobium symbiosis. Friesen, M. L. *New Phytologist* 194:1096-1111. 2012.



125. Alternative energy: evaluating wood fuel for greenhouse heat. Bartok, J. W., Jr. *Greenhouse Management* 32(8):17. 2012.

126. Auditing for energy efficiency. Benson, S. *American Nurseryman* 210(9):6, 8, 10-11. 2012.

127. The changing light bulb. Bartok, J. W., Jr. *Greenhouse Management* 32(2):26-27. 2012.

128. Diffusion: how high-diffusion coverings can make a difference in your greenhouse. Allen, L. *Greenhouse Management* 32(5):28-29. 2012.

129. Easy solutions: hoophouse improvement you can make. Bartok, J. W., Jr. *Greenhouse Management* 32(9):14. 2012.

130. Everything you wanted to know about fog: but were afraid to ask. Stanley, M. *International Plant Propagators' Society, combined proceedings 2011*, 61:104-105. 2012.

131. Hole digging done right. Von Ruden, D. *American Nurseryman* 210(3):20-23. 2012.

132. New advances: a look at newer variable speed irrigation pumps. Bartok, J. W., Jr. *Greenhouse Management* 32(12):16. 2012.



133. © Assessing the ecological success of restoration by afforestation on the Chinese loess plateau. Jiao, J., Zhang, Z., Bai, W., Jia, Y., and Wang, N. *Restoration Ecology* 20(2):240-249. 2012.

134. © Cultural intensity and planting density effects on aboveground biomass of 12-year-old loblolly pine trees in the Upper Coastal Plain and Piedmont of the southeastern United States. Subedi, S., Kane, M., Zhao, D., Borders, B., and Greene, D. *Forest Ecology and Management* 267:157-162. 2012.

135. © Does mixing tree species enhance stand resistance against natural hazards? a case study for spruce. Griess, V. C., Acevedo, R., Hartl, F., Staupendahl, K., and Knoke, T. *Forest Ecology and Management* 267:284-296. 2012.

136. © **Faster growth of *Eucalyptus grandis* and *Eucalyptus pilularis* in mixed-species stands than monocultures.** Forrester, D. I. and Smith, R. G. B. *Forest Ecology and Management* 286:81-86. 2012.
137. © **First-year effects of tree shelters and mulching on survival and growth of zeen oak (*Quercus canariensis* Lamk.) seedlings planted in north-western Tunisia.** Mechergui, T., Hasnaoui, B., Pardos, M., and Boussaidi, N. *Rev. Ecol. (Terre Vie)* 67:3-18. 2012.
138. © **Growth and survival of Port-Orford-Cedar families on three sites on the south Oregon coast.** Harrington, C. A., Gould, P. J., and Snieszko, R. A. *Western Journal of Applied Forestry* 27(3):156-158. 2012.
139. © **Influence of herbaceous and woody vegetation control on seedling microclimate, leaf gas exchange, water status, and nutrient relations of *Pinus strobus* L. seedlings planted in a shelterwood.** Parker, W. C., Pitt, D. G., and Morneault, A. E. *Forest Ecology and Management* 271:104-114. 2012.
140. © **Nursery stock quality as an indicator of bottomland hardwood forest restoration success in the Lower Mississippi River alluvial valley.** Jacobs, D. F., Goodman, R. C., Gardiner, E. S., and Salifu, K. F. *Scandinavian Journal of Forest Research* 27:255-269. 2012.
141. **Optimization of environmental factors affecting initial growth of Norway spruce seedlings.** Johansson, K., Langvall, O., and Bergh, J. *Silva Fennica* 46(1):27-38. 2012.
142. © **Particle size and composition of polymer root gels affect loblolly pine seedling survival.** Starkey, T. E., Enebak, S. A., South, D. B., and Cross, R. E. *Native Plants Journal* 13(1):19-26. 2012.
143. © **Photosynthetic response, carbon isotopic composition, survival, and growth of three stock types under water stress enhanced by vegetative competition.** Pinto, J. R., Marshall, J. D., Dumroese, R. K., Davis, A. S., and Cobos, D. R. *Canadian Journal of Forest Research* 42:333-344. 2012.
144. **Planted *Picea mariana* growth and nutrition as influenced by silviculture x nursery interactions on an Ericaceous-dominated site.** Thiffault, N., Hebert, F., and Jobidon, R. *Silva Fennica* 46(5):667-682. 2012.
145. **Productivity and cost-effectiveness of the M-planter tree planting machine in Latvian conditions.** Liepins, K., Lazdina, D., and Lazdins, A. *Baltic Forestry* 17(2):308-313. 2011.
146. © **Restoring longleaf pine on an agricultural site by planting alternating rows of slash pine: a case study.** South, D. B., Johnson, E. E., Hains, M. J., and VanderSchaaf, C. L. *Southern Journal of Applied Forestry* 36(3):118-125. 2012.
147. © **Rotation-age results from a loblolly pine spacing trial.** Amateis, R. L. and Burkhart, H. E. *Southern Journal of Applied Science* 36(1):11-18. 2012.
148. **Seedling establishment on small cutting areas with and without site preparation in a drained spruce mire -- a case study in northern Finland.** Hokka, H., Repola, J., Moilanen, M., and Saarinen, M. *Silva Fennica* 46(5):695-705. 2012.
149. © **Silvicultural treatments for converting loblolly pine to longleaf pine dominance: effects on resource availability and their relationships with planted longleaf pine seedlings.** Hu, H., Wang, G. G., Walker, J. L., and Knapp, B. O. *Forest Ecology and Management* 282:115-123. 2012.
150. © **Stand responses to initial spacing in Norway spruce plantations in Norway.** Gizachew, B., Brunner, A., and Oyen, B.-H. *Scandinavian Journal of Forest Research* 27:637-648. 2012.
151. © **Survival and growth of balsam fir seedlings and saplings under multiple controlled ungulate densities.** Hidding, B., Tremblay, J. P., and Cote, S. D. *Forest Ecology and Management* 276:96-103. 2012.
152. © **Techniques to promote Garry oak seedling growth and survival in areas with high levels of herbivory and competition.** Clements, D. R., Luginbill, S., Jordan, D. A., Van Dragt, R., and Pelant, R. K. *Northwest Science* 85(2):172-181. 2011.
153. © **Terpene production and growth of three Pacific Northwest conifers in response to simulated browse and nutrient availability.** Burney, O. T. and Jacobs, D. F. *Trees* 26:1331-1342. 2012.
154. © **Urban environment of New York City promotes growth in northern red oak seedlings.** Searle, S. Y., Turnbull, M. H., Boelman, N. T., and Schuster, W. S. F. *Tree Physiology* 32:389-400. 2012.
155. **The use of soil additives and root dips on noble fir Christmas trees.** Landgren, C. *Tree Planters' Notes* 55(2):34-38. 2012.



156. © Antimicrobial activity of chestnut extracts for potential use in managing soilborne plant pathogens. Hao, J. J., Liu, H., Donis-Gonzalez, I. R., and Lu, X. H. *Plant Disease* 96(3):354-360. 2012.

157. Artificial regeneration of five-needle pines of western North America: a survey of current practices and future needs. Waring, K. M. and Goodrich, B. A. *Tree Planters' Notes* 55(2):55-71. 2012.

158. © Biochar amendment increases resistance to stem lesions caused by *Phytophthora* spp. in tree seedlings. Zwart, D. C. and Kim, S. H. *HortScience* 47(12):1736-1740. 2012.

159. © Chestnut breeding in the United States for disease and insect resistance. Anagnostakis, S. L. *Plant Disease* 96(10):1392-1403. 2012.

160. Controlling whiteflies: how ICM is an effective solution for whiteflies and plant quality. Faver, M. and Winski, P. *Greenhouse Management* 32(9):79-80. 2012.

161. © Development and evaluation of a real-time PCR seed lot screening method for *Fusarium circinatum*, causal agent of pitch canker disease. Dreaden, T. J., Smith, J. A., Barnard, E. L., and Blakeslee, G. *Forest Pathology* 42:405-411. 2012.

162. © Fungicide efficacy in prevention of root rot incited by *Phytophthora cactorum* and *Phytophthora drechsleri* in Fraser fir seedlings. Hoover, B. K. *Hort-Technology* 22(4):470-475. 2012.

163. Hackberry: an alternative to ash species in the battle against Emerald ash borer. Mathers, T. *Tree Planters' Notes* 55(2):43-48. 2012.

164. Hard to control: four questions to help you better handle mealybugs. Cloyd, R. *Greenhouse Management* 32(5):14-15. 2012.

165. © Higher resistance of the offspring of Scots pine trees resulting from natural regeneration in old foci of *Heterobasidion annosum* root rot. Napierala-Filipiak, A. and Filipiak, M. *Scandinavian Journal of Forest Research* 27:794-799. 2012.

166. © Infectivity and inoculum production of *Phytophthora ramorum* on roots of eastern United States oak species. Widmer, T. L., Shishkoff, N., and Dodge, S. C. *Plant Disease* 96:1675-1682. 2012.

167. Leafminers. Cloyd, R. *Greenhouse Management* 32(11):16. 2012.

168. © Liverwort control: an ancillary role for ozone-based irrigation water treatment systems? Graham, T. and Dixon, M. A. *HortScience* 47(3):361-367. 2012.

169. © Pathogenicity testing of four *Bursaphelenchus* species on conifer seedlings under greenhouse conditions. Dayi, M. and Akbulut, S. *Forest Pathology* 42:213-219. 2012.

170. © PCF-DGGE method for in planta detection and identification of *Phytophthora* species. Rytönen, A., Lilja, A., and Hantula, J. *Forest Pathology* 42:22-27. 2012.

171. Pest control guide: pest control materials for managing insect and mite pests of greenhouse-grown crops. Cloyd, R. A. *Greenhouse Management* 32(1):3-8. 2012.

172. Pest monitoring: a best practice. Graesch, J. *American Nurseryman* 210(5):14-15. 2012.

173. *Phytophthora ramorum* in Canada: evidence for migration within North America and from Europe. Goss, E. M., Larsen, M., Vercauteren, A., and Werres, S. *Phytopathology* 101:166-171. 2011.

174. © *Phytophthora ramorum* sp. nov., a new pathogen on *Rhododendron* and *Viburnum*. Werres, S., Marwitz, R., Man In't Veld, W. A., and De Cock, A. W. A. M. *Mycological Research* 105(10):1155-1165. 2012.

175. © Smoke-water controls *Pythium* damping-off in papaya seedling. Lin, H.-L., Chumpookam, J., and Shiesh, C.-C. *HortScience* 47(10):1453-1456. 2012.

176. © Standardizing the nomenclature for clonal lineages of the sudden oak death pathogen, *Phytophthora ramorum*. Grunwald, N. J., Goss, E. M., Ivors, K., and Garbelotto, M. *Phytopathology* 99(7):792-795. 2012.

177. © Survival of *Phytophthora ramorum* in *Rhododendron* root balls and in rootless substrates. Vercauteren, A., Riedel, M., Maes, M., Werres, S., and Heungens, K. *Plant Pathology*. 2012.

178. © A systems approach for management of pests and pathogens of nursery crops. Parke, J. L. and Grunwald, N. J. *Plant Disease* 96(9):1236-1244. 2012.

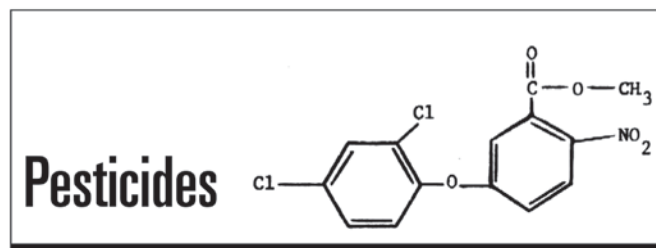
179. © Tree insects and pathogens display opposite tendencies to attack native vs. non-native pines. Lombardero, M. J., Alonso-Rodriguez, M., and Roca-Posada, E. P. *Forest Ecology and Management* 281:121-129. 2012.

180. © *Trichoderma atroviride* promotes growth and enhances systemic resistance to *Diplodia pinea* in radiata pine (*Pinus radiata*) seedlings. Reglinski, T., Rodenburg, N., Taylor, J. T., and Northcott, G. L. *Forest Pathology* 42:75-78. 2012.

181. © Viability of oomycete propagules following ingestion and excretion by fungus gnats, shore flies, and snails. Hyder, N., Coffey, M. D., and Stanghellini, M. E. *Plant Disease* 93(7):720-726. 2012.

182. Weevil woes: how to quickly spot and stop a black vine weevil infestation. Hanna, J. *Greenhouse Management* 32(11):50-52. 2012.

183. What's wrong with my plant? Johnson, J. International Plant Propagators' Society, combined proceedings 2011, 61:70-75. 2012.



184. The downside of combination fungicides. Pscheidt, J. W. *Digger* 56(4):41-44. 2012.

185. Fungicides for disease control of greenhouse crops. Warfield, C. Y. *Greenhouse Management* 32(2):3-14. 2012.

Seedling Harvesting and Storage



186. © Frost hardiness, carbohydrates and bud morphology of *Picea abies* seedlings after different lengths of freezer storage. Luoranen, J., Riikonen, J., Rikala, R., and Sutinen, S. *Scandinavian Journal of Forest Research* 27:414-419. 2012.

187. © Survival of southern pine seedlings after inoculations with *Pythium* and cold storage in the presence of peat moss. Jackson, D. P., Enebak, S. A., and South, D. B. *Forest Pathology* 42:44-51. 2012.

Seedling Physiology and Morphology



188. © Biomass allocation to roots and shoots is more sensitive to shade and drought in European beech than in Norway spruce seedlings. Schall, P., Lodige, C., Beck, M., and Ammer, C. *Forest Ecology and Management* 266:246-253. 2012.

189. © Cold hardiness of *Pinus nigra* Arnold as influenced by geographic origin, warming, and extreme summer drought. Kreyling, J., Wiesenberg, G. L. B., Thiel, D., and Wohlfart, C. *Environmental and Experimental Botany* 78:99-108. 2012.

190. © Differences in hydraulic architecture between mesic and xeric *Pinus pinaster* populations at the seedling stage. Corcuera, L., Gil-Pelegrin, E., and Nativol, E. *Tree Physiology* 32:1442-1457. 2012.

191. © Does freezePruf topical spray increase plant resistance to freezing stress? Anderson, J. A. *Hort-Technology* 22(4):542-546. 2012.

192. © The effect of induced heat waves on *Pinus taeda* and *Quercus rubra* seedlings in ambient and elevated CO₂ atmospheres. Ameye, M., Wertin, T. M., Bauweraerts, I., and McGuire, M. A. *New Phytologist* 196:448-461. 2012.

193. © Effects of elevated temperature and [CO₂] on photosynthesis, leaf respiration, and biomass accumulation of *Pinus taeda* seedlings at a cool and a warm site within the species' current range. Wertin, T. M., McGuire, M. A., van Iersel, M., Ruter, J. M., and Teskey, R. O. *Canadian Journal of Forest Research* 42:943-968. 2012.

194. Effects of "short" photoperiods on seedling growth of *Pinus brutia*. Iakovoglou, V., Radoglou, K., Kostopoulou, P., and Dini-Papanatasi, O. *Journal of Environmental Biology* 33:149-154. 2012.

195. © Growth and physiological response of fraser fir [*Abies fraseri* (Pursh) Poir.] seedlings to water stress: seasonal and diurnal variations in photosynthetic pigments and carbohydrate concentration. Kurlac, S., Nzokou, P., Guney, D., Cregg, B. M., and Turna, I. HortScience 47(10):1512-1519. 2012.

196. © High-light acclimation in *Quercus robur* L. seedlings upon over-topping a shaded environment. Jensen, A. M., Gardiner, E. S., and Vaughn, K. C. Environmental and Experimental Botany 78:25-32. 2012.

197. © Horticultural applications of a newly revised USDA plant hardiness zone map. Widrlechner, M. P., Daly, C., Keller, M., and Kaplan, K. HortTechnology 22(1):6-19. 2012.

198. © How long can young Scots pine seedlings survive waterlogging? Mukassabi, T. A., Polwart, A., Coleshaw, T., and Thomas, P. A. Trees 26:1641-1649. 2012.

199. Intraspecific variation in *Pinus pinaster* PSII photochemical efficiency in response to winter stress and freezing temperatures. Corcuera, L., Gil-Pelegrin, E., and Notivol, E. PLoS One 6(1):e28772. 2011.

200. © The minimum temperature for budburst in *Betula* depends on the state of dormancy. Junttila, O. and Hanninen, H. Tree Physiology 32:337-345. 2012.

201. © An operational method for estimating cold tolerance thresholds of white spruce seedlings in forest nurseries. Carles, S., Lamhamedi, M. S., Stowe, D. C., Veilleux, L., and Margolis, H. A. Forestry Chronicle 88(4):448-457. 2012.

202. Plant hormones: the auxins, points for understanding their actions and use. Barnes, H. W. International Plant Propagators' Society, combined proceedings 2011, 61:320-326. 2012.

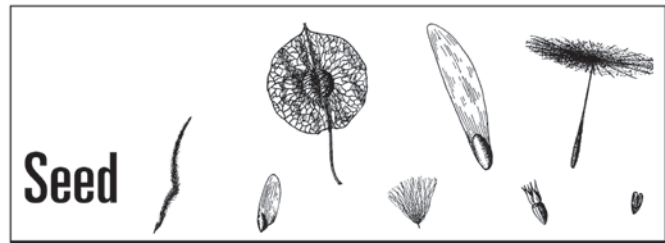
203. © Promoting seedling stress resistance through nursery techniques in China. Liu, Y., Bai, S. L., Zhu, Y., Li, G. L., and Jiang, P. New Forests 43:639-649. 2012.

204. © Short-term changes in biomass partitioning of two full-sib clones of *Pinus taeda* L. under differing fertilizer regimes over 4 months. Stovall, J. P., Fox, T. R., and Seiler, J. R. Trees 26:951-961. 2012.

205. © Trade-offs between growth and cold and drought hardiness in subarctic Douglas-fir. Darychuk, N., Hawkins, B. J., and Stoehr, M. Canadian Journal of Forest Research 42:1530-1541. 2012.

206. © Using nomograms for evaluating plant morphological and physiological data. Haase, D. L. Western Journal of Applied Forestry 27(1):42-45. 2012.

207. © Why seedlings survive: influence of plant attributes. Grossnickle, S. C. New Forests 43(5-6):711-738. 2012.



208. *Betula pendula* seed storage and sowing pre-treatment: effect on germination and seedling emergence in container cultivation. Tylkowski, T. Dendrobiology 67:49-58. 2012.

209. Does Scots pine seed colour affect its germination? Mukassabi, T. A., Polwart, A., Coleshaw, T., and Thomas, P. A. Seed Science & Technology 40:155-162. 2012.

210. Effects of storage conditions and pre-chilling periods on germinability of *Pinus ponderosa* seeds from Patagonia, Argentina: preliminary study. Pasquini, N. M. and Defosse, G. E. Bosque 33(1):99-103. 2012.

211. © Marked, biased, filter (MBF): use of digital X-radiography and mark-recapture to partition seed lots based on sampled individual seed quality attributes. Keefe, R. F. and Davis, A. S. New Forests 43:169-184. 2012.

212. © Nut cold hardiness as a factor influencing the restoration of American chestnut in northern latitudes and high elevations. Saielli, T. M., Schaberg, P. G., Hawley, G. J., Halman, J. M., and Gurney, K. M. Canadian Journal of Forest Research 42:849-857. 2012.

213. © The Pop Test: a quick aid to estimate seed quality. Tilley, D. J., Ogle, D., and Cornforth, B. Native Plants Journal 12(3):227-232. 2011.

214. © The sticky tale of seed coat mucilages: production, genetics, and role in seed germination and dispersal. Western, T. L. Seed Science Research 22:1-25. 2012.

215. © Testing the "local provenance" paradigm: a common garden experiment in Cumberland Plain Woodland, Sydney, Australia. Hancock, N., Leishman, M. R., and Hughes, L. Restoration Ecology online. 2012.



216. Adding to growth: researchers test the efficacy of soil additives in promoting plant growth and reducing mortality. Landgren, C. and Kowalski, J. *Digger* 56(6):41-44. 2012.

217. © Amending soils of different texture with six compost types: impact on soil nutrient availability, plant growth and nutrient uptake. Duong, T. T. T., Penfold, C., and Marschner, P. *Plant and Soil* 354:197-209. 2012.

218. Assessing phytotoxicity in fresh and aged whole pine tree substrates. Witcher, A. L., Blythe, E. K., Fain, G. B., Curry, K. J., and Pounders, C. T. *International Plant Propagators' Society, combined proceedings 2011*, 61:477-482. 2012.

219. © Biochar affects macronutrient leaching from a soilless substrate. Altland, J. E. and Locke, J. C. *HortScience* 47(8):1136-1140. 2012.

220. © Effectiveness of water-saving superabsorbent polymer in soil water conservation for oat based on ecophysiological parameters. Islam, M. R., Xue, X., Li, S., and Ren, C. *Communications in Soil Science and Plant Analysis* 42:2322-2333. 2011.

221. © Evaluation of growth media incorporating cotton ginning by-products for vegetable production. Khah, E. M., Petropoulos, S. A., Karapanos, I. C., and Passam, H. C. *Compost Science & Utilization* 20(1):24-28. 2012.

222. Growing media: what you need to know. Handreck, K. *International Plant Propagators' Society, combined proceedings 2011*, 61:59-61. 2012.

223. © Harnessing the rhizosphere microbiome through plant breeding and agricultural management. Bakker, M. G., Manter, D. K., Sheflin, A. M., Weir, T. L., and Vivanco, J. M. *Plant and Soil* 360:1-13. 2012.

224. © Interactive effects of plants and earthworms on the physical stabilization of soil organic matter in aggregates. Fonte, S. J., Quintero, D. C., Velasquez, E., and Lavelle, P. *Plant and Soil* 359:205-214. 2012.

225. PILCs as water-transmitting material and application in planting trees in drought areas. Zhang, Z., Wang, B., and Zhou, S. *Materials Science Forum* 685:239-245. 2011.

226. Post-distilled cedar as an alternative substrate in the production of greenhouse grown annuals. Vandiver, T. A., Fain, G. B., Gilliam, C. H., and Sibley, J. L. *International Plant Propagators' Society, combined proceedings 2011*, 61:420-424. 2012.

227. © Predicting penetrometer resistance from the compression characteristic of soil. Gao, W., Ren, T., Bengough, A. G., Auneau, L., Watts, C. W., and Whalley, W. R. *Soil Science Society of America Journal* 76(2):361-369. 2012.

228. A safe substrate? Investigating the virulence of *Verticillium* in hammer-milled shade trees when using as an alternative substrate. Stoven, H., Owen, J., and Santamaria, L. *Digger* 56(8):121-124, 126-127. 2012.

229. © Soil properties following reforestation or afforestation of marginal cropland. Sauer, T. J., James, D. E., Cambardella, C. A., and Hernandez-Ramirez, G. *Plant and Soil* 360:375-390. 2012.

230. © Storage time and amendments affect pine tree substrate properties and marigold growth. Taylor, L. L., Niemiera, A. X., Wright, R. D., and Harris, J. R. *HortScience* 47(12):1782-1788. 2012.

231. © Substituting pine wood for pine bark affects physical properties of nursery substrates. Altland, J. E. and Krause, C. R. *HortScience* 47(10):1499-1503. 2012.



232. © Development and implementation of a forest nursery accreditation policy at a local level in Leyte, Philippines. Gravoso, R. S., Gregorio, N. O., Gerona, M. A. D., and Serino, M. N. *V Small-scale Forestry* 10:473-488. 2011.

233. © Do propagation methods affect the fine root architecture of African plum (*Dacryodes edulis*)? Asaah, E. K., Wanduku, T. N., Tchoundjeu, Z., Kouodiekong, L., and Van Damme, P. *Trees* 26:1461-1469. 2012.

234. Effect of irrigation water qualities on *Leucaena leucocephala* germination and early growth stage.

Tadros, M. J., AL-Mefleh, N., and Mohawesh, O. International Journal of Environmental Science and Technology 9:281-286. 2012.

235. © Establishing woody perennials on hostile soils in arid and semi-arid regions — a review. Azam, G., Grant, C. D., Nuberg, I. K., Murray, R. S., and Misra, R. K. Plant and Soil 360:55-76. 2012.

236. © Improving planting stocks for the Brazilian Atlantic forest restoration through community-based seed harvesting strategies. Brancalion, P. H. S., Viani, R. A. G., Aronson, J., Rodrigues, R. R., and Nave, A. G. Restoration Ecology 20(6):704-711. 2012.

237. © The phenology of dioecious *Ficus* spp. tree species and its importance for forest restoration projects. Kuaraksa, C., Elliott, S., and Hossaert-Mckey, M. Forest Ecology and Management 265:82-93. 2012.

238. © Preliminary studies on morphological diversity of coconut (*Cocos nucifera* L.) seedlings by organic and inorganic fertilizer amendments at Karachi, Pakistan. Solangi, A. H. and Iqbal, M. Z. Pakistan Journal of Botany 44(1):161-164. 2012.

239. © Resprouting ability of dry forest tree species after disturbance does not relate to propagation possibility by stem and root cuttings. Vieira, D. L. M., Coutinho, A. G., and da Rocha, G. P. E. Restoration Ecology online. 2012.

240. © Validation of quality tests for forest seed species. de Santana, D. G., Wielewicz, A. P., and Salomao, A. N. Seed Science Research 22:S74-S79. 2012.



241. Air-layering techniques for conservation of rhododendrons and azaleas. Hammond, J. M. International Plant Propagators' Society, combined proceedings 2011, 61:183-186. 2012.

242. Current recommendations for use of Rhizopon rooting hormones. Eigenraam, K. International Plant

Propagators' Society, combined proceedings 2011, 61:187-191. 2012.

243. Effect of indole-3-butyric acid on root formation in *Alnus glutinosa* microcuttings. San Jose, M. C., Romero, L., and Janeiro, L. V. Silva Fennica 46(5):643-654. 2012.

244. How to improve cuttings propagation using water-based indole-3-butyric acid rooting solutions. Kroin, J. International Plant Propagators' Society, combined proceedings 2011, 61:381-391. 2012.

245. © Optimization of seasonality and mother plant nutrition for vegetative propagation of *Pinus pinaster* Ait. Martinez-Alonso, C., Kidelman, A., Feito, I., and Velasco, T. New Forests 43:651-663. 2012.

246. © Performance of jack pine (*Pinus banksiana*) rooted cuttings from proliferated dwarf shoots versus seedlings 8 years after planting. Lu, P., Bell, W., Charrette, P., and Thompson, M. Canadian Journal of Forest Research 42:1404-1409. 2012.

247. © Selection and budding propagation of native bigtooth maple for water-conserving landscapes. Richards, M. R., Rupp, L. A., Kjelgren, R., and Rasmussen, V. P. HortTechnology 22(5):669-676. 2012.

248. Vegetative propagation of *Quercus robur*. Carter, N. International Plant Propagators' Society, combined proceedings 2011, 61:89-94. 2012.



249. © Constructed marshes for nitrate removal. Kadlec, R. H. Critical Reviews in Environmental Science and Technology 42:934-1005. 2012.

250. © Developing a physiological-based, on-demand irrigation system for container production. Fulcher, A. F., Buxton, J. W., and Geneve, R. L. Scientia Horticulturae 138:221-226. 2012.

251. © Development of a simple reference evapotranspiration model for irrigation of woody ornamentals. Beeson, R. C., Jr. HortScience 47(2):264-268. 2012.

252. Managing growth of *Hibiscus acetosella* by controlling substrate moisture with sensor-controlled irrigation. Bayer, A., Chappel, M., and van Iersel, M. International Plant Propagators' Society, combined proceedings 2011, 61:488-492. 2012.

253. Mitigating irrigation pathogens without water treatment. Hong, C. International Plant Propagators' Society, combined proceedings 2011, 61:412-416. 2012.

254. Monitoring from a distance: using a remote moisture monitoring system to manage irrigation. Hoskins, T., Owen, J., and Stoven, H. Digger 56(7):41-44. 2012.

255. © Survey of physical, chemical, and microbial water quality in greenhouse and nursery irrigation water. Meador, D. P., Fisher, P. R., Harmon, P. F., and Peres, N. A. HortTechnology 22(6):778-. 2012.

256. Treating irrigation water: these water treatment methods can be effective at eliminating damaging water molds in nurseries. Parke, J. and Fisher, P. Digger 56(2):41-45. 2012.

257. Water management in propagation. Fisher, P. International Plant Propagators' Society, combined proceedings 2011, 61:97-103. 2012.



258. © Allyl isothiocyanate as a methyl bromide alternative for weed management in polyethylene-mulched tomato. Bangarwa, S. K., Norsworthy, J. K., and Gbur, E. E. Weed Technology 26:449-454. 2012.

259. © Duration of flumioxazin-based weed control in container-grown nursery crops. Wehtje, G., Gilliam, C. H., and Marble, S. C. Weed Technology 26:679-683. 2012.

260. © An evaluation of two novel cultivation tools. Evans, G. J., Bellinder, R. R., and Hahn, R. R. Weed Technology 26:316-325. 2012.

261. © Handheld flame cultivators as a management option for woody weeds. Ghantous, K. M., Sandler, H. A., Autio, W. R., and Jeranyama, P. Weed Technology 26:371-375. 2012.

262. © Influence of water quality and coapplied agrochemicals on efficacy of glyphosate. Chahal, G. S., Jordan, D. L., Burton, J. D., and Danehower, D. Weed Technology 26:167-176. 2012.

263. © Mechanical scarification of dodder seeds with a handheld rotary tool. Ghantous, K. M. and Sandler, H. A. Weed Technology 26:485-489. 2012.

264. © Organic weed management in field crops with a propane flamer and a rotary hoe. Taylor, E. C., Renner, K. A., and Sprague, C. L. Weed Technology 26:793-799. 2012.

265. Rationale for a natural products approach to herbicide discovery. Dayan, F. E., Owens, D. K., and Duke, S. O. Pesticide Management Science 68:519-528. 2012.

266. The spread offense against weeds. Peachey, E. Digger 56(2):41-45. 2012.

267. Steam treating for weed control. Rideout, W. American Nurseryman 210(4):12-14. 2012.

268. © Sulfometuron methyl influences seedling growth and leaf function of three conifer species. Robertson, N. D. and Davis, A. S. New Forests 43:185-195. 2012.

269. © Weed control using an enclosed thermal heating apparatus. Hoyle, J. A., McElroy, S., and Rose, J. J. Weed Technology 26:699-707. 2012.

270. © Yellow nutsedge (*Cyperus esculentus*) growth and tuber production in response to increasing glyphosate rates and selected adjuvants. Felix, J., Dauer, J. T., Hulting, A. G., and Mallory-Smith, C. Weed Technology 26:95-101. 2012.

Contact Information for Reforestation, Nurseries, and Genetic Resources (RNGR) Team http://www.rngr.net		
Technology Transfer Services	Area of Responsibility	Who to Contact
<ul style="list-style-type: none"> • National Nursery Specialist • Forest Nursery Notes • Container Tree Nursery Manual • Native Plants Journal 	US and International	<p>Kas Dumroese USDA Forest Service 1221 S. Main Street Moscow, ID 83843 TEL: 208.883.2324 • FAX: 208.883.2318 E-Mail: kdumroese@fs.fed.us</p>
<ul style="list-style-type: none"> • Technical Assistance about Forest, Conservation, and Native Plant Nurseries • Tree Planters' Notes • Proceedings of Nursery Meetings 	Western US	<p>Diane L. Haase USDA Forest Service PO Box 3623 Portland, OR 97208 TEL: 503.808.2349 • FAX: 503.808.2339 E-Mail: dlhaase@fs.fed.us</p>
<ul style="list-style-type: none"> • Technical Assistance about Tree Improvement and Genetic Resources • Technical Assistance about Forest and Conservation Nurseries 	Southeastern US and International	<p>George Hernandez USDA Forest Service 1720 Peachtree Road NW Atlanta, GA 30367 TEL: 404.347.3554 • FAX: 404.347.2776 E-Mail: ghernandez@fs.fed.us</p>
<ul style="list-style-type: none"> • Technical Assistance about Tree and Shrub Seed 	US and International	<p>Bob Karrfalt National Seed Laboratory 5675 Riggins Mill Road Dry Branch, GA 31020 TEL: 478.751.4134 • FAX: 478.751.4135 E-Mail: rkarrfalt@fs.fed.us</p>
<ul style="list-style-type: none"> • Technical Assistance about Tree Improvement and Genetic Resources • Technical Assistance about Forest, Conservation, and Native Plant Nurseries 	Northeastern US and International	<p>Ron Overton Regeneration Specialist USDA Forest Service Purdue University 715 West State Street West Lafayette, IN 47907 TEL: 765.496.6417 • FAX: 765.494.9461 E-Mail: roverton@fs.fed.us</p>
<ul style="list-style-type: none"> • Technical Assistance to Native Americans regarding Nurseries, Reforestation, and Restoration • Proceedings of Nursery Meetings 	US and International	<p>Jeremy Pinto USDA Forest Service 1221 S. Main Street Moscow, ID 83843 TEL: 208.883.2352 • FAX: 208.883.2318 E-Mail: jpinto@fs.fed.us</p>