

Special Order Publications

National Proceedings: Forest and Conservation Nursery Associations—2010

Riley LE, Haase DL, Pinto JR, tech. coords. 2011

Proceedings RMRS-P-65. Fort Collins, CO: USDA Forest Service, Rocky Mountain Research Station.183 p.

These proceedings are a compilation of 25 papers that were presented at the regional meetings of the forest and conservation nursery associations and the Intertribal Nursery Council meeting in the United States in 2010. The Joint Meeting of the Southern Forest Nursery Association and Northeastern Forest and Conservation Nursery Association was held at the Peabody Hotel in Little Rock, Arkansas on July 26 to 29, 2010. Subject matter for the technical sessions included marketing strategies, tree improvement programs, nursery certification, fumigation updates, and insect and disease management. The Joint Meeting of the Western Forest and Conservation Nursery Association and Forest Nursery Association of British Columbia: Target Seedling Symposium—2010 was held at the Sheraton Portland Airport Hotel in Portland, OR, on August 24 to 26, 2010. Subject matter for the technical sessions included the target seedling, seed handling, seedling nutrition, seedling culturing, pest management, nursery research and new technology, and general nursery topics. The Intertribal Nursery Council Meeting was held in Arlington, WA, on September 21 to 23, 2010. Subject matter for the technical sessions included native plant production for fisheries restoration, the use of small native plant nurseries in cultural and conservation education, energy conservation and alternative energy sources in nurseries, and the effects of climate change on nursery production.

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Bareroot Production



- 1. © The effects of methyl bromide alternatives on soil and seedling pathogen populations, weeds, and seedling morphology in Oregon and Washington forest nurseries. Weiland, J. E., Leon, A. L., Edmonds, R. L., and Littke, W. R. Canadian Journal of Forest Research 41:1885-1896. 2011.
- 2. © Nursery location and potassium enrichment in Aleppo pine stock. 1. Effect on nursery culture, growth, allometry and seedling quality. del Campo, A. D., Hermoso, J., Ceacero, C. J., and Navarro-Cerrillo, R. M. Forestry 84(3):221-234. 2011.
- 3. © Nursery location and potassium enrichment in Aleppo pine stock. 2. Performance under real and hydrogel-mediated drought conditions. del Campo, A. D., Hermoso, J., Ceacero, C. J., and Navarro-Cerrillo, R. M. Forestry 84(3):235-245. 2011.
- **4. Staying in rotation.** McCoy, M. Digger Farwest Edition 55(8):43-48. 2011.

Business Management



- **5.** Historical forest seedling production in the southern United States: 2008 to 2009 planting season. Enebak, S. A. IN: National Proceedings: Forest and Conservation Nursery Associations 2010, p. 19-34. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **6.** © Increasing nursery and greenhouse worker safety. Langlois, S., Coker, C. E., Posadas, B., and Knight, P. Hortscience 45(8 Suppl). 2011.
- 7. Panel discussion: Marketing hardwoods at the George O. White State Forest Nursery. Hoss, G. IN: National Proceedings: Forest and Conservation Nursery Associations 2010, p. 12-13. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **8. Preventing noise-induced hearing loss: safety measures for field employees.** Beckley, B. USDA Forest Service, Technology & Development Program, 1067-2321P-MTDC. 16 p. 2010.
- **9.** © Ten basic principles for improved nursery performance. Bingham, P. International Plant Propagators' Society, combined proceedings, 2010, 60:303-306. 2011.

Container Production



- **10.** © Biodegradable pots, the whys and the wherefores a journey into the unknown. Woolmore, M. International Plant Propagators' Society, combined proceedings, 2010, 60:182-184. 2011.
- 11. © Care and handling of container plants from storage to outplanting. Landis, T. D. and Dumroese, R. K. International Plant Propagators' Society, combined proceedings, 2010, 60:263-272. 2011.
- **12.** © **CCROP** -- **simulation model for container-grown nursery plant production.** Million, J. B., Ritchie, J. T., Yeager, T. H., and Larsen, C. A. Scientia Horticulturae 130:874-886. 2011.
- **13.** © Cleaning used media and containers with steam and hot water. Hammond, E. International Plant Propagators' Society, combined proceedings, 2010, 60:253-256. 2011.
- **14.** © Effect of container color on substrate temperatures and growth of red maple and redbud. Markham, J. W., Bremer, D. J., Boyer, C. R., and Schroeder, K. R. HortScience 46(5):721-726. 2011.
- **15.** Effect of mini-plug container depth on root and shoot growth of four forest tree species during early developmental stages. Kostopoulou, P., Radoglou, K., Papanastasi, O. D., and Adamidou, C. Turkish Journal of Agriculture and Forestry 35:379-390. 2011.
- **16.** © Greenhouse and landscape performance of bedding plants in biocontainers. Kuehny, J. S., Taylor, M., and Evans, M. R. HortTechnology 21(2):155-161. 2011.
- 17. © Growth of containerized *Acer saccharinum* from seed in a cedar-amended substrate. Starr, Z. W., Boyer, C. R., and Griffin, J. J. Hortscience 45(8 Suppl). 2011.
- 18. Nursery cultural practices to achieve targets: a case study in western larch irrigation. Davis, A. S.

- and Keefe, R. F. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 128-132. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **19.** © Optimizing substrate moisture measurements in containerized nurseries. Daniels, A. B., Barnard, D. M., Chapman, P. L., and Bauerle, W. L. HortScience 47(1):98-104. 2012.
- 20. Repetitive reaction and restitution (R³) induction of drought hardiness in conifer container seedlings. Hodgson, J. IN: National Proceedings: Forest and Conservation Nursery Associations 2010, p. 83-86. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **21. Targeting hardwoods.** Jacobs, D. F. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 115-120. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **22.** Understanding container moisture. Owen, J., Stoven, H., and Bailey, D. Digger 55(7):41-45. 2011.

Diverse Species



- **23.** © After-ripening, stratification, and perigynia removal enhance Pennsylvania sedge germination. McGinnis, E. E. and Meyer, M. H. HortTechnology 21(2):187-192. 2011.
- **24.** © A brief history of native plants. Jones, T. International Plant Propagators' Society, combined proceedings, 2010, 60:236-240. 2011.
- **25.** Can environmental variation affect seedling survival of plants in northeastern Mexico? Garcia, J. F. Arch. Biol. Sci., Belgrade 63(3):731-737. 2011.

- **26.** © Challenges of propagating medicinal plants. Jackson, F. V. International Plant Propagators' Society, combined proceedings, 2010, 60:332-334. 2011.
- **27.** © Comparison of seed germination techniques for common elderberry (*Sambucus nigra* L. ssp. *canadensis*). Leif, J. W., Durling, J. C., and Burgdorf, D. W. Native Plants Journal 12(2):132-135. 2011.
- **28.** Cross-cultural collaboration for riparian restoration on tribal lands in Kansas. Barden, C. J., Fisher, L., Welton, W. M., and Dyer, R. IN: Pathways for getting to better water quality: the citizen effect, p. 171-179. 2011.
- 29. © Current nursery practice with regard to mycorrhizas and the propagation of New Zealand's native plants. Williams, A. International Plant Propagators' Society, combined proceedings, 2010, 60:160-166. 2011.
- **30.** © Development and plasticity of endangered shrub *Lindera melissifolia* (Lauraceae) seedlings under contrasting light regimes. Lockhart, B. R., Gardiner, E. S., Stautz, T., and Leininger, T. D. Plant Species Biology 27:30-45. 2012.
- **31.** © Direct seeding for riparian tree re-vegetation: small-scale field study of seeding methods and irrigation techniques. Grabau, M. R., Milczarek, M. A., Karpiscak, M. M., and Raulston, B. Ecological Engineering 37:864-872. 2011.
- **32.** © Early field performance of *Acacia koa* seedlings grown under subirrigation and overhead irrigation. Davis, A. S., Pinto, J. R., and Jacobs, D. F. Native Plants Journal 12(2):94-99. 2011.
- **33.** Effect of acid scarification and cold moist stratification on the germination of *Cercis siliquastrum* **L. seeds.** Pipinis, E., Milios, E., Smiris, P., and Gioumousidis, C. Turkish Journal of Agriculture and Forestry 35:259-264. 2011.
- **34.** Effect of cold storage, heat, smoke and charcoal on breaking seed dormancy of *Arctostaphylos pungens* HBK (Ericaceae). Jurado, E., Marquez-Linares, M., and Flores, J. Phyton 80:101-105. 2011.
- **35.** © Effect of deep planting on landscape shrubs. Downer, A. J., Hodel, D. R., and Mochizuki, M. J. Hortscience 45(8 Suppl). 2011.

36. © Effect of gibberellic acid on germination of seeds of five species of cacti from the Chihuahuan desert, northern Mexico. Rojas-Arechiga, M., Aguilar, K. M., Golubov, J., and Mandujano, M. C. Southwestern Naturalist 56(3):393-435. 2011.

- 37. © Effects of irrigation frequency and nitrogen fertilizer rate on water stress, nitrogen uptake, and plant growth of container-grown *Rhododendron*. Scagel, C. F., Bi, G., Fuchigami, L. H., and Regan, R. P. HortScience 46(12):1598-1603. 2011.
- **38.** © The effects of nitrogen addition on the growth of two exotic and two native forest understory plants. Ross, K. A., Ehrenfeld, J. G., and Patel, M. V. Biological Invasions 13:2203-2216. 2011.
- **39.** © Establishing native plants in a weedy riparian environment. Smaill, S. J., Ledgard, N., Langer, E. R., and Henley, D. New Zealand Journal of Marine and Freshwater Research 45(3):357-367. 2011.
- **40.** © **Fern propagation 101.** Berger, T. International Plant Propagators' Society, combined proceedings, 2010, 60:198-200. 2011.
- **41.** © Field establishment of little bluestem and prairie dropseed under managed conditions. Fedewa, C. A. and Stewart, J. R. Native Plants Journal 12(2):111-117. 2011.
- **42.** © Forest restoration potentials of coal-mined lands in the eastern United States. Zipper, C. E., Burger, J. A., McGrath, J. M., Rodrigue, J. A., and Holtzman, G. I. Journal of Environmental Quality 40:1567-1577. 2011.
- **43.** © Germination of seeds in the endangered *Abronia macrocarpa*. Goodson, J. and Williamson, P. S. Southwestern Naturalist 56(2):141-146. 2011.
- **44.** © Germination of the federally endangered Michaux's sumac (*Rhus michauxii*). Bolin, J. F., Jones, M. E., and Musselman, L. J. Native Plants Journal 12(2):119-122. 2011.
- **45.** © Germination of two seed types from three *Dalea* species. Molano-Flores, B., Coons, J. M., and Cunningham, J. B. Castanea 76(3):266-271. 2011.

- **46.** How a planting changes over time. Munro, N. and Lindenmayer, D. IN: Planting for wildlife: a practical guide to restoring native woodlands, p. 63-73. CSIRO Publishing.
- **47.** © How do riparian woody seedlings survive seasonal drought? Stella, J. C. and Battles, J. J. Oecologia 164:579-590. 2010.
- **48.** © It's not all asphalt: Washington State Department of Transportation's use of native plants. Buis, S. International Plant Propagators' Society, combined proceedings, 2010, 60:241-244. 2011.
- **49.** © 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, published online Dec. 2011. 2011.
- **50.** © Maine nursery and landscape industry perspectives on invasive plant issues. Coats, V. C., Stack, L. B., and Rumpho, M. E. Invasive Plant Science and Management 4:378-389. 2011.
- **51.** © Native Plant Materials Directory. Native Plants Journal 12(2):136-211. 2011.
- **52.** © Optimized scarification protocols improve germination of diverse *Rubus* germplasm. Wada, S. and Reed, B. M. Scientia Horticulturae 130:660-664. 2011.
- **53.** © Overcoming dormancy and enhancing germination of *Sphaeralcea munroana* seeds. Kildisheva, O. A., Dumroese, R. K., and Davis, A. S. HortScience 46(12):1672-1676. 2011.
- **54. Plant material collection guide.** St. John, L., Ogle, D. G., Scianna, J., and Winslow, S. USDA Natural Resources Conservation Service, Technical Note, TN Plant Materials No. 1. 17 p. 2010.
- **55. Planting strategies to establish giant bulrush.** Mallison, C. T. and Thompson, B. Z. Journal of Aquatic Plant Management 48:111-115. 2010.
- 56. © Reproductive ecology of black mangrove (*Avicennia germinans*) along the Louisiana coast: propagule production cycles, dispersal limitations,

and establishment elevations. Alleman, L. K. and Hester, M. W. Estuaries and Coasts 34:1068-1077. 2011.

- **57.** Seed ecology of *Lindera melissifolia* (Lauraceae) as it relates to rarity of the species. Hawkins, T. S., Walck, J. L., and Hidayati, S. N. Journal of the Torrey Botanical Society 138(3):298-307. 2011.
- **58.** © Seed germination of southern Chihuahuan Desert plants in response to elevated temperatures. Perez-Sanchez, R. M., Jurado, E., Chapa-Vargas, L., and Flores, J. Journal of Arid Environments 75:978-980, 2011.
- **59.** © Seed propagation of *Chionanthus pygmaeus* (Pygmy Fringetree), a rare woody species native to Florida. Eads, A. and Stewart, J. R. Hortscience 45(8 Suppl). 2011.
- **60.** Shrub-steppe species germination trials and survival after outplanting on bare soils. Link, S. O., Cruz, R. O., Harper, B. L., Jones, J. D., and Penney, B. L. IN: National Proceedings: Forest and Conservation Nursery Associations 2010, p. 159-167. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **61.** © Sweet fern rhizome cutting success is influenced by propagation medium. Lubell, J. D. and Brand, M. H. International Plant Propagators' Society, combined proceedings, 2010, 60:384-385. 2011.
- **62.** © Using historic bushel weights to estimate seed quality. Tilley, D. J. and Ogle, D. Native Plants Journal 12(2):107-110. 2011.



63. © ¹⁵N-uptake in *Abies lasiocarpa* and *Abies nordmanniana* at low root temperatures. Saebo, A. and Hanslin, H. M. Scandinavian Journal of Forest Research 26:399-403. 2011.

- **64.** © The "4R" nutrient stewardship framework for horticulture. Mikkelsen, R. L. HortTechnology 21(6):658-662. 2011.
- 65. © Above- and below-ground nutrient tissue concentration and leaf pigment changes in Patagonian woody seedlings grown under light and soil moisture gradients. Esteban, R. S., Pastur, G. M., Lencinas, M. V., Moretto, A., and Peri, P. L. Journal of Plant Nutrition 34:2222-2236. 2011.
- **66.** © Adaptations to nitrogen form: comparing inorganic nitrogen and amino acid availability and uptake by four temperate forest plants. Metcalfe, R. J., Nault, J., and Hawkins, B. J. Canadian Journal of Forest Research 41:1626-1637, 2011.
- 67. © Application of the "4R" nutrient stewardship concept to horticultural crops: getting nutrients in the "right" place. Bryla, D. R. HortTechnology 21(6):674-682. 2011.
- **68.** © Application of the "4R" nutrient stewardship concept to horticultural crops: selecting the "right" nutrient source. Gaskell, M. and Hartz, T. HortTechnology 21(6):663-666. 2011.
- **69.** © Autumn fertilization of *Quercus ilex* ssp. *ballota* (Desf.) Samp. nursery seedlings: effects on morpho-physiology and field performance. Andivia, E., Fernandez, M., and Vazquez-Pique, J. Annals of Forest Science 68:543-553. 2011.
- 70. © Chrysanthemum production in composted and noncomposted organic waste substrates fertilized with nitrogen at two rates using surface and subirrigation. Krucker, M., Hummel, R. L., and Cogger, C. HortScience 45(1):1695-1701. 2010.
- 71. © Differential field response of two Mediterranean tree species to inputs of sewage sludge at the seedling stage. Valdecantos, A., Cortina, J., and Vallejo, V. R. Ecological Engineering 37:1350-1359. 2011.
- **72.** © Effectiveness, ammonium impact and potassium adequacy of soybean-base liquid fertilizer on bedding plants. Nelson, P. V., Niedziela, C. E., Jr., Pitchay, D. S., and Mingis, N. C. Journal of Plant Nutrition 33:724-735, 2010.

- **73.** © Efficacy of soybean-base liquid fertilizer for greenhouse crops. Nelson, P. V., Pitchay, D., Niedziela, C. E., Jr., and Mingis, N. C. Journal of Plant Nutrition 33:351-361. 2010.
- **74.** Efficiency of phosphorus use in young plants of *Eucalyptus urophylla* S.T. Blake. Godoy, T. G. and Rosada, S. C. Cerne, Lavras 17(3):303-308. 2011.
- **75.** Evidence for nitrogen-fixation in the Salicaceae Family. von Wuehlisch, G. Tree Planters' Notes 54(2):38-41. 2011.
- **76.** © Fall fertilization of holm oak affects N and P dynamics, root growth potential, and post-planting phenology and growth. Oliet, J. A., Salazar, J. M., Villar, R., and Robredo, E. Annals of Forest Science 68:647-656. 2011.
- 77. © Growth, foliar nutrition and δ13C responses of red alder (*Alnus rubra*) to phosphorus additions soon after planting on moist sites. Brown, K. R., Courtin, P. J., and Negrave, R. W. Forest Ecology and Management 262:791-802. 2011.
- 78. © Metal stress and decreased tree growth in response to biosolids application in greenhouse seedlings and in situ Douglas-fir stands. Cline, E. T., Nguyen, Q. T. N., Rollins, L., and Gawel, J. E. Environmental Pollution 160:139-144. 2012.
- **79.** © Minimizing nutrient leaching and improving nutrient use efficiency of *Liriodendron tulipifera* and *Larix leptolepis* in a container nursery system. Park, B. B., Cho, M. S., Lee, S. W., Yanai, R. D., and Lee, D. K. New Forests 43:57-68. 2012.
- **80.** © Nitrogen budgeting and quality of exponentially fertilized *Quercus robur* seedlings in Ireland. Schmal, J. L., Jacobs, D. F., and O'Reilly, C. European Journal of Forest Research 130:557-567. 2011.
- **81.** © Nitrogen forms affect root structure and water uptake in the hybrid poplar. Domenicano, S., Coll, L., Messier, C., and Berninger, F. New Forests 42:347-362. 2011.
- **82.** Nitrogen rhizodeposition of legumes. Fustec, J., Lesuffleur, F., Mahieu, S., and Cliquet, J.-B. IN: Sustainable agriculture, volume 2, p. 869-881. E. Lichtfouse et al, editors. Springer Science. 2011.

- **83.** © Nutrient deprivation improves field performance of woody seedlings in a degraded semi-arid shrubland. Trubat, R., Cortina, J., and Vilagrosa, A. Ecological Engineering 37:1164-1173. 2011.
- **84.** Nutrient loading of Norway spruce seedlings hastens bud burst and enhances root growth after outplanting. Luoranen, J. and Rikala, R. Silva Fennica 45(3):319-329. 2011.
- **85.** © The production and use of compost tea extract for improved plant growth. Eigenraam, K. International Plant Propagators' Society, combined proceedings, 2010, 60:307-311. 2011.
- **86.** © Recycled liquid cattle manure as a sole fertilizer source for growing container nursery stock in a closed system. Alam, M. Z. and Chong, C. HortScience 45(1):157-160. 2010.
- **87.** Seedling mineral nutrition, the root of the matter. Hawkins, B. J. IN: National Proceedings: Forest and Conservation Nursery Associations 2010, p. 87-97. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **88.** © Selecting the right nutrient rate: basis for managing fertilization programs. Santos, B. M. HortTechnology 21(6):683-685. 2011.

General and Miscellaneous



- **89.** © ACCEPtS: an alliance for cooperative course sharing in the plant sciences. Evans, M. R., Harkess, R., Kuehny, J., and Cole, J. HortTechnology 21(6):696-697. 2011.
- **90.** A century of tree planting: Wisconsin's forest nursery system. Auer, J. J. Tree Planters' Notes 54(2):23-29. 2011.

- **91.** Climate change and forest biodiversity: a vulnerability assessment and action plan for National Forests in western Washington. Aubry, C., Devine, W., Shoal, R., Bower, A., and Miller, J. USDA Forest Service, Pacific Northwest Region. 2011.
- **92.** © Development of the AG*IDEA alliance's horticulture graduate certificates program and inter-institutional course share. Paparozzi, E. T., Williams, K. A., Geneve, R., and Hatterman-Valenti, H. HortTechnology 21(6):688-691. 2011.
- **93.** © Educating the next generation. Chandler, A. F. International Plant Propagators' Society, combined proceedings, 2010, 60:217-223. 2011.
- **94.** © Floriculture sustainability research coalition: bringing the latest sustainability research to the industry. Burnett, S., Mattson, N., Drug, B., and Lopez, R. HortTechnology 21(6):692-693. 2011.
- **95.** Forestry and tree planting in North Carolina. Roeder, K. Tree Planters' Notes 54(2):12-22. 2011.
- **96. Forests and forestry in Arkansas during the last two centuries.** Bragg, D. C. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 3-9. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **97.** © A general model for assessment of the carbon sequestration potential of afforestation projects. Meilby, H. and Helles, F. New Forests 42:383-396. 2011.
- **98.** © Global change, global trade, and the next wave of plant invasions. Bradley, B. A., Blumenthal, D. M., Early, R., and Grosholz, E. D. Frontiers in Ecology and Environment 10(1):20-28. 2012.
- **99. Growing trees in Georgia.** Pohl, R. and Kelly, S. Tree Planters' Notes 54(1):4-9. 2011.
- **100.** © A life cycle assessment case study for walnut tree (*Juglans regia* L.) seedlings production. Cambria, D. and Pierangeli, D. International Journal of Life Cycle Assessment 16:859-868. 2011.

- **101.** © Life cycle assessment of the production and use of polypropylene tree shelters. Arnold, J. C. and Alston, S. M. Journal of Environmental Management 94:1-12. 2012.
- **102.** © Opportunities and challenges for ecological restoration within REDD+. Alexander, S., Nelson, C. R., Aronson, J., and Lamb, D. Restoration Ecology 19(6):683-689. 2011.
- **103.** An overview of rural forestry tree planting in North Dakota. Kangas, M. Tree Planters' Notes 54(1):15-17. 2011.
- **104. Rehabilitating Afghanistan's natural resources.** Hernandez, G. IN: National Proceedings: Forest and Conservation Nursery Associations 2010, p. 46-48. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **105. RNGR:** a national resource for reforestation, restoration, and nursery professionals. Haase, D. L., Pinto, J. R., Dumroese, R. K., and Hernandez, G. Tree Planters' Notes 54(1):28-34. 2011.
- 106. © Species spellchecker fixes plant glitches: Online tool should weed out misspellings and duplications. Whitfield, J. Nature 474:263. 2011.
- **107. Tree planting in Alaska.** Graham, J. S. and Joyner, P. A. Tree Planters' Notes 54(2):4-11. 2011.
- **108.** Tree planting in Indiana. Hawkins, B. and O'Connor, P. Tree Planters' Notes 54(1):10-14. 2011.
- **109.** Weyerhaeuser in Arkansas. Hearnsberger, J. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 10-11. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **SO. National Proceedings: Forest and Conservation Nursery Associations 2010.** Riley, L.E., Haase,
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Genetics and Tree Improvement



- 110. © Assisted migration to address climate change: recommendations for aspen reforestation in western Canada. Gray, L. K., Gylander, T., Mbogga, M. S., Chen, P., and Hamann, A. Ecological Applications 21(5):1591-1603. 2011.
- 111. © Differences in growth and mineral nutrition of seedlings produced from ten white spruce seed orchards. Carles, S., Lamhamedi, M. S., Beaulieu, J., and Stowe, D. C. New Forests 42:195-214. 2011.
- 112. © Effects of propagule type on genetic parameters of wood density and growth in a loblolly pine progeny test at ages 10 and 11 years. Cumbie, W. P., Isik, F., Li, B., and Goldfarb, B. Tree Genetics & Genomes 7:1147-1158. 2011.
- 113. © Effects of seedling age on blister rust resistance assessments in eastern white pine and its hybrid backcrosses. Lu, P. and Derbowka, D. Canadian Journal of Forest Research 42:67-74. 2012.
- **114.** Estimates of genetic gains for growth traits in young plants of *Eucalyptus urophylla* S.T. Blake. Godoy, T. G. and da Silva Rosado, S. C. Cerne, Lavras 17(2):189-193. 2011.
- 115. © Geographic patterns of genetic variation and population structure in *Pinus aristata*, Rocky Mountain bristlecone pine. Schoettle, A. W., Goodrich, B. A., Hipkins, V., Richards, C., and Kray, J. Canadian Journal of Forest Research 42:23-37. 2012.
- 116. Provenance variability in nursery growth of subalpine fir. Cartwright, C. and Ying, C. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 110-114. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.

- 117. Restoration of propagation and genetic breeding of a critically endangered tree species, *Abies beshanzuensis*. Shao, S. and Jin, Z. IN: Species diversity and extinction, p. 415-430. G.H. Tepper, editor. Nova Science Publishers, Inc. 2010.
- **118.** Who pays for tree improvement? Byram, T. D. and Raley, E. M. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 14-18. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.

Mycorrhizae & Beneficial Microorganisms

- 119. © Frankia assemblages associated with *Alnus rubra* and *Alnus viridis* are strongly influenced by host species identity. Lipus, A. and Kennedy, P. G. International Journal of Plant Sciences 172(2):403-410. 2011.
- 120. © Genetic diversity of symbiotic *Bradyrhizobium elkanii* populations recovered from inoculated and non-inoculated *Acacia mangium* field trials in Brazil. Perrineau, M. M., Le Roux, C., de Faria, S. M., de Carvalho Balieiro, F., and Galiana, A. Systematic and Applied Microbiology 34:376-384. 2011.
- **121. Hand in hand with the soil.** Rogers, R. Digger Farwest Edition 55(8):133-137. 2011.
- 122. Molecular tools for rapid and accurate detection of black truffle (*Tuber melanosporum* Vitt.) in inoculated nursery plants and commercial plantations in Chile. Cordero, C., Caceres, P., Gonzalez, G., and Quiroz, K. Chilean Journal of Agricultural Research 71(3):488-494. 2011.
- **123.** © Mycorrhizal colonization improves nutrient uptake efficiency of *Nassela pulchra* in nursery conditions. Corkidi, L., Merhaut, D. J., Allen, E. B., and Bohn, J. Hortscience 45(8 Suppl). 2011.

- 124. © New report of the mycorrhizal association between *Pisolithus tinctorius* (Sclerodermataceae, Basidiomycota) and *Quercus coccifera* (Fagaceae, Angiospermae). Diaz, G. and Honrubia, M., Mycologie 32(1):95-102. 2011.
- **125.** © Use of mycorrhizal colonization to reduce nitrogen and phosphorus leaching from nursery containers. Corkidi, L., Merhaut, D. J., Allen, E. B., and Downer, A. J. Hortscience 45(8 Suppl). 2011.

Nursery Structures & Equipment



- **126.** Alternative power sources what are the options? Bartok, J. W., Jr. Greenhouse Management 31(11):50-51. 2011.
- **127.** Comparing planting tools for container longleaf pine. Leduc, D. J., Haywood, J. D., and Sung, S.-J. S. Tree Planters' Notes 54(1):24-27. 2011.
- **128. Considering alternative fuels.** Kovalycsik, M. Greenhouse Management 31(8):54-56. 2011.
- **129.** © Development of a walk-behind type hand tractor powered vegetable transplanter for paper pot seedlings. Kumar, G. V. P. and Raheman, H. Biosystems Engineering 110:189-197. 2011.
- **130. Evolving environmental controls.** Pham, Y. Greenhouse Management 31(7):74, 76, 77. 2011.
- **131. Greenhouse retrofits.** Brown, S. T. Greenhouse Management 31(7):70, 72, 73. 2011.
- **132.** © **Growing and energy conservation.** van Steenis, E. International Plant Propagators' Society, combined proceedings, 2010, 60:245-252. 2011.
- **133. Heat distribution options.** Bartok, J. W., Jr. Greenhouse Management 31(8):51-53. 2011.
- **134. High tunnels.** Kleinhenz, M. D. Greenhouse Management 31(7):66-69. 2011.

- **135.** A highly efficient machine planting system for forestry research plantations the Wright-MSU method. McKenna, J. R., Krauss, O. R., and Beheler, B. Tree Planters' Notes 54(2):32-37. 2011.
- **136.** Increase water use efficiency with shading. Parbst, K. Greenhouse Management 31(9):60-63. 2011.
- **137.** © The Jet Harvester: a shop-built tool for harvesting forb and shrub seeds. Tilley, D. J. and Bair, C. Native Plants Journal 12(2):123-127. 2011.
- **138.** © A large-volume rhizotron for evaluating root growth under natural-like soil moisture conditions. Silva, D. D. and Beeson, R. C., Jr. HortScience 46(12):1677-1682. 2011.
- **139.** © Light-emitting diode lights: the future of plant lighting. Seelye, J. F. and Mullan, A. C. International Plant Propagators' Society, combined proceedings, 2010, 60:171-178. 2011.
- **140. Lighting the way.** McCoy, M. Digger 55(12):27-29. 2011.
- **141.** © Performance evaluation of a newly developed variable-rate sprayer for nursery liner applications. Jeon, H. Y., Zhu, H., Derksen, R. C., and Ozkan, H. E. Transactions of the ASABE 54(6):1997-2007. 2011.
- 142. © Precision irrigation and nutrient management for nursery, greenhouse and green roof systems: sensor networks for feedback and feedforward control. Lea-Cox, J. D., Kantor, G. A., Bauerle, W. L., and van Iersel, M. Hortscience 45(8 Suppl). 2010.
- **143. Preventing greenhouse fires.** Jones, E. Greenhouse Management 31(7):78-81. 2011.
- **144.** Save your crops with a backup generator. Bartok, J. W., Jr. Greenhouse Management 31(12):69-70. 2011.
- **145. Solar panels.** Lieth, M. and Lieth, H. Greenhouse Management 31(7)S18-S23 (National Greenhouse Manufacturers Association Spotlight). 2011.
- **146.** © Thermography as non invasive functional imaging for monitoring seedling growth. Belin, E., Rousseau, D., Rojas-Varela, J., and Demilly, D. Computers and Electronics in Agriculture 79:236-240. 2011.

- **147.** © Ways to increase energy efficiency in nurseries. Cliffe, D. International Plant Propagators' Society, combined proceedings, 2010, 60:45-46. 2011.
- **148.** What kind of insulation can be used on greenhouses? Bartok, J. W., Jr. Greenhouse Management 31(9):84-85. 2011.
- 149. What's new with nurseries and reforestation projects at the Missoula Technology and Development Center? Simonson, B. IN: National Proceedings: Forest and Conservation Nursery Associations 2010, p. 35-39. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.



- 150. © Abrupt drops in water table level influence the development of *Populus nigra* and *Salix alba* seedlings of different ages. Guilloy, H., Gonzalez, E., Muller, E., Hughes, F. M. R., and Barsoum, N. Wetlands 31:1249-1261. 2011.
- 151. © Amelioration of planting stress by soil amendment with a hydrogel-mycorrhiza mixture for early establishment of beech (*Fagus sylvatica* L.) seedlings. Beniwal, R. S., Hooda, M. S., and Polle, A. Annals of Forest Science 68:803-810. 2011.
- 152. © Artificial regeneration with *Quercus ilex* L. and *Quercus suber* L. by direct seeding and planting in southern Spain. Gonzalez-Rodriguez, V., Navarro-Cerrillo, R. M., and Villar, R. Annals of Forest Science 68:637-646. 2011.
- **153.** The cost-efficiency of seedling packaging specifically designed for tree planting machines. Ersson, B. T., Bergsten, U., and Lindroos, O. Silva Fennica 45(3):379-394. 2011.

- 154. © Deep planting has no short- or long-term effect on the survival and growth of white spruce, black spruce, and jack pine. Paquette, A., Girard, J. P., and Walsh, D. Northern Journal of Applied Forestry 28(3):146-151. 2011.
- 155. © Do limited cold tolerance and shallow depth of roots contribute to yellow-cedar decline? Schaberg, P. G., D'Amore, D. V., Hennon, P. E., Halman, J. M., and Hawley, G. J. Forest Ecology and Management 262:2142-2150. 2011.
- 156. © Effectiveness of five soil reclamation and reforestation techniques on oil and gas well sites in northeastern British Columbia. McConkey, T., Bulmer, C., and Sanborn, P. Canadian Journal of Soil Science 92:165-177. 2012.
- 157. © Effects of aspect and slope position on growth and nutritional status of planted Aleppo pine (*Pinus halepensis* Mill.) in a degraded land semi-arid areas of Jordan. Omary, A. A. New Forests 42:285-300. 2011.
- 158. © Effects of cultural intensity and planting density on stand-level aboveground biomass production and allocation for 12-year-old loblolly pine plantations in the Upper Coastal Plain and Piedmont of the southeastern United States. Zhao, D., Kane, M., Borders, B., Subedi, S., and Akers, M. Canadian Journal of Forest Research 42:111-122. 2012.
- **159.** © Effects of initial spacing on height development of loblolly pine. Anton-Fernandez, C., Burkhart, H. E., Strub, M., and Amateis, R. L. Forest Science 57(3):201-211. 2011.
- **160.** © Effects of *Microstegium vimineum* (Trin.) A. Camus (Japanese stiltgrass) on native hardwood survival and growth: implications for restoration. Beasley, R. R. and McCarthy, B. C. Natural Areas Journal 31(3):246-255. 2011.
- **161.** © Effects of nurse-tree crop species and density on nutrient and water availability to underplanted *Toona ciliata* in northeastern Argentina. Dordel, J., Simard, S. W., Bauhus, J., and Guy, R. D. Canadian Journal of Forest Research 41:1754-1768. 2011.

- 162. © The effects of the degree of soil cover with an impervious sheet on the establishment of tree seedlings in an arid environment. Zegada-Lizarazu, W. and Berliner, P. R. New Forests 42:1-17. 2011.
- **163.** © Emulating nursery plants to restore oak forests. Badano, E. I., Samour-Nieva, O. R., and Flores, J. Ecological Engineering 37:1244-1248. 2011.
- 164. © Enrichment of big-leaf mahogany (*Swietenia macrophylla* King) in logging gaps in Bolivia: the effect of planting method and silvicultural treatments on long-term seedling survival and growth. Navarro-Cerrillo, R. M., Griffith, D. M., Ramirez-Soria, M. J., and Pariona, W. Forest Ecology and Management 262:2271-2280. 2011.
- 165. © Establishment and growth of container seedlings for reforestation: a function of stocktype and edaphic conditions. Pinto, J. R., Marshall, J. D., Dumroese, R. K., and Davis, A. S. Forest Ecology and Management 261:1876-1884. 2011.
- **166.** Extending the planting period of container grown oriental spruce (*Picea orientalis* L. Link.) seedlings into summer. Olmez, Z. and Suner, E. Not. Bot. Hort. Agrobot. Cluj. 39(1):292-296. 2011.
- 167. © Growth and nutrition of black spruce seedlings in response to disruption of *Pleurozium* and *Sphagnum* moss carpets in boreal forested peatlands. Lafleur, B., Pare, D. Fenton N. J., and Bergeron, Y. Plant and Soil 345:141-153. 2011.
- 168. © Growth of aspen and white spruce on naturally saline sites in northern Alberta: implications for development of boreal forest vegetation on reclaimed saline soils. Lilles, E. B., Purdy, B. G., Macdonald, S. E., and Chang, S. X. Canadian Journal of Soil Science 92:213-227. 2012.
- 169. © Growth of planted black spruce seedlings following mechanical site preparation in boreal forested peatlands with variable organic layer thickness: 5-year results. Lafleur, B., Pare, D., Fenton, N. J., and Bergeron, Y. Annals of Forest Science 68:1291-1302. 2011.
- 170. © Growth responses to planting density and management intensity in loblolly pine plantations

in the southeastern USA Lower Coastal Plain. Zhao, D., Kane, M., and Borders, B. E. Annals of Forest Science 68:625-635, 2011.

- 171. Increasing survival and growth of Scots pine seedlings with selection based on autumn coloration. Pulkkinen, P., Varis, S., Jaatinen, R., Leppanen, A., and Pakkanen, A. Silva Fennica 45(4):573-581. 2011.
- **172.** © Influence of initial age and size on the field performance of *Larix olgensis* seedlings. Li, G. L., Liu, Y., Zhu, Y., and Yang, J. New Forests 42:215-226. 2011.
- 173. Machine planting of Norway spruce by Bracke and Ecoplanter: an evaluation of soil preparation, planting method and seedling performance. Luoranen, J., Rikala, R., and Smolander, H. Silva Fennica 45(3):341-357. 2011.
- 174. Mounding and scalping prior to reforestation of hydrologically sensitive deep-peated sites: factors behind Scots pine regeneration success. Pearson, M., Saarinen, K., Silvan, N., and Laine, J. Silva Fennica 45(4):647-667. 2011.
- 175. © Nurse-plant and mulching effects on three conifer species in a Mexican temperate forest. Blanco-Garcia, A., Saenz-Romero, C., Martorell, C., and Alvarado-Sosa, P. Ecological Engineering 37:994-998. 2011.
- 176. Outplanting strategies GRO TRZ Consulting Incorporated. Farquharson, D. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 147-149. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **177.** © **Plant facilitation on a mine tailings dump.** Markham, J., Young, I., and Renault, S. Restoration Ecology 19(5):569-571. 2011.
- **178.** © Planting depth and soil amendments affect growth of *Quercus virginiana* Mill. Bryan, D. L., Arnold, M. A., Volder, A., and Watson, W. T. Urban Forestry & Urban Greening 10:127-132. 2011.

- 179. © Reforestation of degraded Kermes oak shrublands with planted pines: effects of vegetation cover, species diversity and community structure. Ganatsas, P., Tsitsoni, T., Tsakaldimi, M., and Zagas, T. New Forests 43:1-11. 2012.
- 180. A root drench in unsaturated hydrogel solution reduced stress in transplanted *Eucalyptus pilularis* cuttings but was ineffective for seedlings: a glasshouse experiments. Thomas, D. S. and Heagney, G. A. Australian Forestry 74(2):133-140. 2011.
- 181. © Salvage logging versus the use of burnt wood as a nurse object to promote post-fire tree seedling establishment. Castro, J., Allen, C. D., Molina-Morales, M., and Maranon-Jimenez, S. Restoration Ecology 19(4):537-544. 2011.
- 182. © Short-term effects of mechanical and biological treatments on *Sorbus aucuparia* L. sprouting in mesic forests in Finland. Hamberg, L., Vartiamaki, H., Malmivaara-Lamsa, M., and Lofstrom, I. Scandinavian Journal of Forest Research 26:505-514. 2011.
- **183.** © Species-specific barriers to tree regeneration in high elevation habitats of West Virginia. Griscom, B., Griscom, H., and Deaco, S. Restoration Ecology 19(5):660-670. 2011.
- 184. © Survival and early growth of mixed forest stands installed in a Mediterranean region: effects of site preparation intensity. Fonseca, F., de Figueiredo, T., and Martins, A. Forest Ecology and Management 262:1905-1912. 2011.
- **185.** Tree shelters and weed control enhance growth and survival of natural blue oak seedlings. McCreary, D. D., Tietje, W., Davy, J., and Larsen, R. California Agriculture 65(4):192-196. 2011.
- **186.** Use of painted hardwood seedlings in reforestation. Pitt, D. Tree Planters' Notes 54(2):30-31. 2011.
- **187.** © Using hydrogel and clay to improve the water status of seedlings for dryland restoration. Chirino, E., Vilagrosa, A., and Vallejo, V. R. Plant and Soil 344:99-110. 2011.

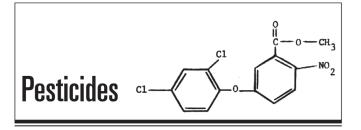
Pest Management

- 188. © Activity of meadowfoam (*Limnanthes alba*) seed meal glucolimnanthin degradation products against soilborne pathogens. Zasada, I. A., Weiland, J. E., Reed, R. L., and Stevens, J. F. Journal of Agricultural and Food Chemistry 60:339-345. 2011.
- **189.** Biological control of *Fusarium solani* sp. Dalbergiae, the wilt pathogen of *Dalbergia sissoo*, by *Trichoderma viride* and *T. harzianum*. Basak, A. C. and Basak, S. R. Journal of Tropical Forest Science 23(4):460-466. 2011.
- **190.** A community-based stream monitoring program in western Washington for early detection of invasive *Phytophthora* spp. Elliott, M., Chastagner, G., Coats, K. P., and DeBauw, A. Phytopathology 101(6 Suppl):S247. 2011.
- 191. © Composting of *Rhododendron* and bilberry wastes to contain spread of exotic plant pathogens *Phytophthora kernoviae* and *Phytophthora ramorum*. Noble, R., Dobrovin-Pennington, A., Pietravalle, S., and Henry, C. M. Compost Science & Utilization 19(4):219-225. 2011.
- **192.** © Control of soil-borne plant pathogens by microorganisms isolated from suppressive composts. Gullino, M. Pugliese M. and Garibaldi, A. Phytopathology 101:S66. 2011.
- **193.** © Diversity of *Phytophthora* species identified in a nursery irrigation runoff water containment basin of eastern Virginia. Hong, C., Richardson, P., Ghimire, S., and Kong, P. Phytopathology 101:S74. 2011.
- **194.** © Effect of growing medium water content on the biological control of root pathogens in a closed soilless system. Khalil, S. and Alsanius, B. W. Journal of Horticultural Science & Biotechnology 86(3):298-304. 2011.

- 195. © Effect of steam and solarization treatments on pest control, strawberry yield, and economic returns relative to methyl bromide fumigation.
 Samtani, J. B., Gilbert, C., Weber, J. B., and Subbarao, K. V. HortScience 47(1):64-70. 2012.
- **196.** Helping growers adapt to changing rules on fumigants. O'Brien, D. Agricultural Research 59(6):8-19, 2011.
- 197. Incidence of *Craesus castaneae* (Hymenoptera: Tenthredinidae) on chestnut seedlings planted in the Daniel Boone National Forest, Kentucky. Pinchot, C. C., Schlarbaum, S. E., Saxton, A. M., and Clark, S. L. Journal of Entomological Science 46(3):265-268. 2011.
- 198. © Influence of isolation method on recovery of *Pythium* species from forest nursery soils in Oregon and Washington. Weiland, J. E. Plant Disease 95:547-553, 2011.
- **199.** © Integrated pest management strategies at Southern Woods Nursery. Hewson, E. International Plant Propagators' Society, combined proceedings, 2010, 60:185-190. 2011.
- **200.** © Management of *Phytophthora ramorum*infested nursery soil with *Trichoderma asperellum*. Widmer, L., Johnson-Brousseau, S. A., and Ghosh, S. Phytopathology 101(6 Suppl):8191. 2011.
- **201.** © Occurrence of the root rot pathogen, *Fusarium commune*, in forest nurseries of the midwestern and western United States. Kim, M.-S., Stewart, J. E., Dumroese, R. K., and Klopfenstein, N. B. Journal of Phytopathology 160:112-114. 2012.
- **202.** © Organics and biological control in propagation. Kutz-Troutman, A. International Plant Propagators' Society, combined proceedings, 2010, 60:201-205. 2011.
- **203.** © *Phytophthora ramorum* is a generalist plant pathogen with differences in virulence between isolates from infectious and dead-end hosts. Huberli, D. and Garbelotto, M. Forest Pathology 42:8-13. 2012.
- **204.** *Phytophthora ramorum*: Plant pathologists track where it came from and how it has managed to spread. Grunwald, N. Digger 55(9):41-45. 2011.

205. © Pine weevil damage to Norway spruce seedlings: effects of nutrient-loading, soil inversion and physical protection during seedling establishment. Wallertz, K. and Petersson, M. Agricultural and Forest Entomology 13:413-421. 2011.

- **206.** © Spread of *Phytophthora ramorum* to water, soil, and vegetation outside a nursery in Pierce County, Washington. Chastagner, G., Coats, K., and Elliott, M. Phytopathology 101:832. 2011.
- **207.** © 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.
- **208.** © *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.
- 209. The use of Proline (Prothioconazole) to control pitch canker, *Rhizoctonia* foliage blight, and fusiform rust in forest seedling nurseries and efforts to acquire registration. Starkey, T. E. and Enebak, S. A. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 49-57. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **210.** © Use of real-time and nested PCR to detect *Phytophthora ramorum* in invested nursery container mixes and soils. Colburn, G. and Jeffers, S. Phytopathology:101:S38. 2011.
- **211.** © Virulence of Fusarium root-disease pathogens (*Fusarium oxysporum* and *F. commune*) to Douglas-fir *Pseudotsuga menziesii*). Stewart, J. E., Abdo, Z., Dumroese, R., and Klopfenstein, N. B. Phytopathology 101:S171. 2011.
- **212.** Western flower thrips: arm yourself with knowledge before battling this pest. Graesch, J. and Wainwright-Evans, S. Greenhouse Management 31(11):60-63. 2011.



213. © **ASI-261:** a potential non-fumigant alternative to methyl bromide. Rosskopf, E., Kokalis-Burelle, N., He, Z., and Noling, J. Phytopathology 101:S156. 2011.

214. Update on soil fumigation: MBr alternatives and reregistration decisions. Enebak, S. A. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 40-45. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.

Seedling Physiology and Morphology

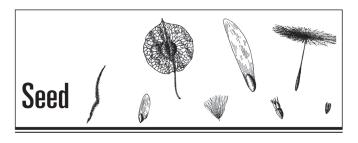


- 215. © Allometry, nitrogen status, and carbon stable isotope composition of *Pinus ponderosa* seedlings in two growing media with contrasting nursery irrigation regimes. Dumroese, R. K., Page-Dumroese, D. S., and Brown, R. E. Canadian Journal of Forest Research 41:1091-1101. 2011.
- 216. © Assessment of assisted migration effects on spring bud flush in white spruce (*Picea glauca* [Moench] Voss) seedlings. Lu, P. and Man, R. Forestry Chronicle 87(3):391-397. 2011.
- 217. © Biomass allocation and foliage heteroblasty in hard pine species respond differentially to reduction in rooting volume. Climent, J., Chambel, M. R., Pardos, M., and Lario, F. European Journal of Forest Research 130:841-850. 2011.

- 218. © Cavitation induced by a surfactant leads to a transient release of water stress and subsequent 'run away' embolism in Scots pine (*Pinus sylvestris*) seedlings. Holtta, T., Juurola, E., Lindfors, L., and Porcar-Castell, A. Journal of Experimental Botany 63(2):1057-1067. 2012.
- 219. © Critical water stress levels in *Pinus patula* seedlings and their relation to measures of seedling morphology. Rolando, C. A., Pammenter, N. W., and Little, K. M. Southern Forests 73(1):41-49. 2011.
- **220.** © Development of tree vigor prediction method at an early stage based on stem hydraulic conductance of seedlings in citrus rootstocks. Iwasaki, M., Fukamachi, H., Satoh, K., and Nesumi, H. Journal of the Japanese Society of Horticultural Science 80(4):390-395. 2011.
- **221.** The earliest stages of tree growth: development, physiology and impacts of microclimate. Johnson, D. M. McCulloh K. A. and Reinhardt, K. IN: Size- and agerelated changes in tree structure and function, p. 65-87. F.C. Meinzer et al, editors. Springer Science. 2011.
- 222. © Effect of nitrogen fertilizer, root branch order and temperature on respiration and tissue N concentration of fine roots in *Larix gmelinii* and *Fraxinus mandshurica*. Jia, S., Wang, Z., Li, X., Zhang, X., and Mclaughlin, N. B. Tree Physiology 31:718-726. 2011.
- **223.** © Growth and frost hardening of European aspen and backcross hybrid aspen as influenced by water and nitrogen. Nikula, S., Manninen, S., and Pulkkinen, P. Annals of Forest Science 68:737-745. 2011.
- **224.** © Higher growth temperatures decreased net carbon assimilation and biomass accumulation of northern red oak seedlings near the southern limit of the species range. Wertin, T. M., McGuire, M. A., and Teskey, R. O. Tree Physiology 31:1277-1288. 2011.
- **225.** © Identification of water stress genes in *Pinus pinaster* Ait. by controlled progressive stress and suppression-subtractive hybridization. Perdiguero, P. Collada C., del Carmen Barbero, M., and Casado, G. G. Plant Physiology and Biochemistry 50:44-53. 2012.
- **226.** © Light acclimation at the end of the growing season in two broadleaved oak species. Cano, F.

- J., Sanchez-Gomez, D., Gasco, A., and Rodriguez-Calcerrada, J. Photosynthetica 49(4):581-592. 2011.
- **227.** © Morphological and physiological acclimation of *Quercus coccifera* L. seedlings to water availability and growing medium. Verdaguer, D., Vilagran, J., Lloansi, S., and Fleck, I. New Forests 42:363-381, 2011.
- **228.** Morphology targets: what do seedling morphological attributes tell us? Pinto, J. R. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 74-79. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **229.** © Relationships between frost hardiness, root growth potential, and photosynthesis of nursery-grown white spruce seedlings. Carles, S., Lamhamedi, M. S., Stowe, D. C., and Bernier, P. Y. Annals of Forest Science 68:1303-1313. 2012.
- **230.** © The role of phytochrome in stress tolerance. Carvalho, R. F., Campos, M. L., and Azevedo, R. A. Journal of Integrative Plant Biology 53(12):920-929. 2011.
- **231.** The role of plant water relations in achieving and maintaining the Target Seedling. Mexal, J. G. and Khadduri, N. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 98-109. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **232.** Root growth in young plants of *Pinus pinceana* Gordon in response to soil moisture. Cordoba-Rodriguez, D., Vargas-Hernandez, J. J., Lopez-Upton, J., and Munoz-Orozco, A. Agrociencia 45:493-506. 2011.
- 233. © Seedling growth and water use of boreal conifers across different temperatures and near-flooded soil conditions. Wolken, J. M., Landhausser, S. M., Lieffers, V. J., and Silins, U. Canadian Journal of Forest Research 41:2292-2300. 2011.
- **234.** Seedling phenology and cold hardiness: moving targets. Haase, D. L. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 121-127. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.

- **235. Seedling root targets.** Haase, D. L. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 80-82. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- 236. © Stomatal and non-stomatal limitations to photosynthesis in seedlings and saplings of Mediterranean species pre-conditioned and aged in nurseries: different response to water stress. Varone, L., Ribas-Carbo, M., Cardona, C., and Galle, A. Environmental and Experimental Botany 75:235-247. 2012.
- **237.** The Target Plant concept a history and brief overview. Landis, T. D. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 61-66. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **238.** Target seedling strategies for intensively managed plantations in the Oregon Coast Range. Wall, M. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 150-156. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.



- **239.** Challenges facing the forest industry in relation to seed dormancy and seed quality. Stoehr, M. U. and El-Kassaby, Y. A. IN: Seed dormancy: methods and protocols, p. 3-15. A.R. Kermode, editor. Springer Science. 2011.
- **240.** Eyeing emergence: modified treatments for terminating dormancy of conifer seeds. Feurtado, J. A. and Kermode, A. R. IN: Seed dormancy: methods and protocols, p. 53-64. A.R. Kermode, editor. Springer Science. 2011.

- **241.** © Fitness consequences of seed size in the valley oak *Quercus lobata* Nee (Fagaceae). Sage, R. D., Koenig, W. D., and McLaughlin, B. C. Annals of Forest Science 68:477-484. 2011.
- **242.** © Improving germination of red elm (*Ulmus rubra*) seeds with gibberellic acid. Morales, B., Boyer, C., Barden, C., and Griffin, J. International Plant Propagators' Society, combined proceedings, 2010, 60:535-537. 2011.
- **243.** © Morphological characteristics of seeds with physical dormancy. Geneve, R. L. International Plant Propagators' Society, combined proceedings, 2010, 60:610-613. 2011.
- 244. © Patterns of exploitation of annually varying *Pinus sylvestris* cone crops by seed-eaters of differing dispersal ability. Summers, R. W. Ecography 34:723-728. 2011.
- **245.** © Plant-derived smoke: old technology with possibilities for economic applications in agriculture and horticulture. Kulkarni, M. G., Light, M. E., and Van Staden, J. South African Journal of Botany 77:972-979. 2011.
- **246.** Producing the Target Seed: seed collection, treatment, and storage. Karrfalt, R. P. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 67-73. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **247.** © Seed-coat anatomy and proanthocyanidins contribute to the dormancy of *Rubus* seed. Wada, S., Kennedy, J. A., and Reed, B. M. Scientia Horticulturae 130:762-768. 2011.
- **248.** Seed dormancy in alpine species. Schwienbacher, E., Navarro-Cano, J. A., Neuner, G., and Erschbamer, B. Flora 206:845-856. 2011.
- **249.** Seed maturation, flower receptivity, and selfing in sweetgum (*Liquidambar styraciflua* L.). Tauer, P. K. and Tauer, C. G. Tree Planters' Notes 54(1):18-23. 2011.

250. Standardizing seed dormancy research.

Hilhorst, H. W. M. IN: Seed dormancy: methods and protocols, p. 43-52. A.R. Kermode, editor. Springer Science. 2011.

251. Vermicompost leachate improves seedling emergence and vigour of aged seeds of commercially grown *Eucalyptus* species. Kandari, L. S., Kulkarni, M. G., and Van Staden, J. South Africa Association of Botanists, Conference Abstracts. 2011.

Soil Management & Growing Media



- **252.** © Adsorption of phosphate by goethite and zeolite: effects of humic substances from green waste compost. Gu, Z., Buyuksonmez, F., Gajaraj, S., and Beighley, R. E. Compost Science & Utilization 19(3):197-204. 2011.
- **253.** © Annual crop growth in substrates amended with sweetgum, hickory, and red cedar. Murphy, A.-M., Gilliam, C. H., Fain, G. B., and Sibley, J. L. International Plant Propagators' Society, combined proceedings, 2010, 60:581-588. 2011.
- **254.** © Biochar adsorbed ammonia is bioavailable. Taghizadeh-Toosi, A., Clough, T. J., Sherlock, R. R., and Condron, L. M. Plant and Soil 350:57-69. 2012.
- **255.** Carefully unraveling the intricacies of biochar. Perry, A. Agricultural Research 59(10):4-8. 2011.
- **256.** © Experiences in development of green compost as a peat replacement material. Rainbow, A. International Plant Propagators' Society, combined proceedings, 2010, 60:499-502. 2011.
- **257.** © Greenhouse solarization an alternative to chemical fumigants. Drahn, S. R. and Versolato, J.-M. International Plant Propagators' Society, combined proceedings, 2010, 60:398-400. 2011.
- **258.** © Growth of *Pistacia chinensis* in a red cedaramended substrate. Starr, Z. Boyer C. International

Plant Propagators' Society, combined proceedings, 2010, 60:602-606. 2011.

- **259.** © Influence of pumice and plant roots on substrate physical properties over time. Altland, J. E., Owen, J. S., Jr., and Gabriel, M. Z. HortTechnology 21(5):554-557. 2011.
- **260.** © Influence on polychlorinated biphenyls content using three types of biowastes as fertilizers in agricultural soils. Antolin, J. M., Bascones, M. S., Fernandez, V. P., and Sanchez, C. T. B. Compost Science & Utilization 19(3):205-213. 2011.
- **261.** Long-term effect of organic and mineral fertilization on soil physical properties under greenhouse and outdoor management practices. Herencia, J. F., Garcia-Galavis, P. A., and Maqueda, C. Pedosphere 21(4):443-453. 2011.
- 262. © Pine bark substrates amended with parboiled rice hulls: physical properties and growth of container-grown *Spirea* during long-term nursery production. Gomez, C. and Robbins, J. HortScience 46(5):784-790. 2011.
- 263. © Plant performance and nutrient losses during containerized landscape shrub production using composted dairy manure solids as a peat substitute in substrate. Shober, A. L., Wiese, C., Denny, G. C., and Stanley, C. D. HortTechnology 21(2):240-245. 2011.
- **264.** © Processed corncob as an alternative to perlite in the production of greenhouse grown annuals. Weldon, T. L., Fain, G. B., Sibley, J. L., and Gilliam, C. H. International Plant Propagators' Society, combined proceedings, 2010, 60:531-534. 2011.

Tropical Forestry & Agroforestry



265. © Assessing the status of three mangrove species restored by the local community in the cyclone-affected area of the Ayeyarwady Delta,

Myanmar. Aung, T. T., Than, M. M., Katsuhiro, O., and Yukira, M. Wetlands Ecology and Management 19:195-208. 2011.

- **266.** © Away-field advantage: mangrove seedlings grow best in litter from other mangrove species. Chapman, S. K. and Feller, I. C. Oikos 120:1880-1888. 2011.
- **267.** © Direct seeding of late-successional trees to restore tropical montane forest. Cole, R. J., Holl, K. D., Keene, C. L., and Zahawi, R. A. Forest Ecology and Management 261:1590-1597. 2011.
- **268.** © Early growth and survival of 49 tropical tree species across sites differing in soil fertility and rainfall in Panama. van Breugel, M., Hall, J. S., Craven, D. J., and Gregoire, T. G. Forest Ecology and Management 261:1580-1589. 2011.
- **269.** © Effect of different pre-sowing seed treatments on the germination of *Leucaena leucocephala* (Lam.) and *Acacia farnesiana* (L.). Tadros, M. J., Samarah, N. H., and Alqudah, A. M. New Forests 42:397-407. 2011.
- 270. Effect of neem (*Azadiracta indica*) aqueous extract on *Casuarina equisetifolia* seed germination, growth of *Frankia* and some rhizospheric microorganisms. Sayed, W. F., Salem, W. M., and Ali, M. S. African Journal of Microbiology 5(14):1874-1880. 2011.
- **271.** Effects of fruit maturity and pre-sowing water treatment on germinative performance of *Gmelina arborea* seeds. Adebisi, M. A., Adekunle, M. F., and Odebiyi, O. A. Journal of Tropical Forest Science 23(4):371-378. 2011.
- **272.** Effects of sowing date and biopesticide on density of white grub *Holotrichia serrata* in a teak nursery. Meshram, P. B. and Homkar, U. Journal of Tropical Forest Science 23(4):358-362. 2011.
- **273.** The impact of climate change on the growth of tropical agroforestry tree seedlings. Esmail, S. and Oelbermann, M. Agroforestry Systems 83:235-244. 2011.
- 274. © Optimizing nursery and plantation methods to grow *Cedrela odorata* seedlings in tropical dry

agroecosystems. Andres, P., Salgado, C., and Espelta, J. M. Agroforestry Systems 83:225-234. 2011.

- 275. Overcoming dormancy in macaw palm diaspores, a tropical species with potential for use as bio-fuel. Ribeiro, L. M., Souza, P. P., Rodrigues, A. G. Jr., and Oliveira, T. G. S. Seed Science & Technology 39:303-317, 2011.
- **276.** © Planting seedlings in tree islands versus plantations as a large-scale tropical forest restoration strategy. Holl, K. D., Zahawi, R. A., Cole, R. J., Ostertag, R., and Cordell, S. Restoration Ecology 19(4):470-479. 2011.
- **277.** © Tree plantations on farms: evaluating growth and potential for success. Hall, J. S., Love, B. E., Garen, E. J., and Slusser, J. L. Forest Ecology and Management 261:1675-1683. 2011.
- **278.** © Validation of quality tests for forest seed species. Garcia de Santana, D., Wielewicki, A. P., and Salomao, A. N. Seed Science Research 22:S74-S79. 2012.
- 279. © Utilization of family genetic variability to improve the rooting ability of white spruce (*Picea glauca*) cuttings. Gravel-Grenier, J., Lamhamedi, M. S., Beaulieu, J., and Carles, S. Canadian Journal of Forest Research 41:1308-1318. 2011.

Vegetative Propagation and Tissue Culture



- **280.** © Plant tissue culture: challenging microorganisms. van Asch, M. International Plant Propagators' Society, combined proceedings, 2010, 60:77-80. 2011.
- **281.** © Propagation of cuttings using foliar-applied indolebutyric acid in aqueous solutions at or after sticking. Kroin, J. International Plant Propagators' Society, combined proceedings, 2010, 60:369-377. 2011.

- **282.** © Some fundamental differences separating rooted cuttings and seedlings. Barnes, H. W. International Plant Propagators' Society, combined proceedings, 2010, 60:416-421. 2011.
- **283.** Tissue culture of conifer seedlings -- 20 years on: viewed through the lens of seedling quality. Grossnickle, S. C. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 139-146. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.
- **284.** © The use of non-dormant rods as planting material: a new approach to establishing willow for environmental applications. Teodorescu, T. I., Guidi, W., and Labrecque, M. Ecological Engineering 37:1430-1433. 2011.
- 285. © Vegetative reproduction capacities of floodplain willows cutting response to competition and biomass loss. Radtke, A., Mosner, E., and Leyer, I. Plant Biology 14:257-264. 2012.

Water Management



- **286.** © CCROP-A web-based decision tool enhances irrigation and nutrient management decisions. Yeager, T., Million, J., Ritchie, J., and Larsen, C. Hortscience 45(8 Suppl). 2011.
- **287.** © Design and monitoring of horizontal subsurface-flow constructed wetlands for treating nursery leachates. Narvaez, L., Cunill, C., Caceres, R., and Marfa, O. Bioresource Technology 102:6414-6420. 2011.
- **288.** © Growing woody plants with limited water resources. Brun, C. A. International Plant Propagators' Society, combined proceedings, 2010, 60:260-262. 2011.

- **289. Irrigation filtration 101.** Ahnert, F. American Nurseryman, Nov. 2011, p. 10-13. 2011.
- **290.** © Phosphorus retention in lab and field-scale subsurface-flow wetlands treating plant nursery runoff. White, S. A., Taylor, M. D., Albano, J. P, Whitwell, T., and Klaine, S. J. Ecological Engineering 37:1968-1976. 2011.
- **291.** Pipe helps boost yields and reduce nitrogen discharge. Cooper, S. Land and Water 22(3):31-33. 2011.
- **292.** © Subirrigation for production of native plants in nurseries concepts, current knowledge, and implementation. Schmal, J. L., Dumroese, R. K., Davis, A. S., and Pinto, J. R. Native Plants Journal 12(2):81-93. 2011.
- **293.** Water supply and quality: the basics. Bilderback, T., Dole, J., and Sneed, R. American Nurseryman June 2011, p. 12-16, 18-19. 2011.
- **294. Water treatment.** Konjoian, P. Greenhouse Management 31(11):67-68. 2011.
- **295.** What's in your water? Fisher, P., Meador, D., Huang, J., and Argo, W. Greenhouse Management 31(9):34-39. 2011.
- **296.** What's in your water: biological water quality. Fisher, P., Meador, D., Parke, J., Wick, R., and Argo, W. Greenhouse Management 31(10):40-42, 72-73. 2011.
- **297.** What's in your water: physical water quality and filtration. Fisher, P., Haskell, D., Meador, D., and Mohammad-Pour, G. Greenhouse Management 31(11):26-30. 2011.
- **298.** What's in your water: sanitizing agent concentration and demand. Huang, J., Fisher, P., Meador, D., and Argo, W. Greenhouse Management 31(12):24-27. 2011.
- **SO. Irrigation.** Stetson, L. E. and Mecham, B. Q. Irrigation Association. 6th ed. 2011. 1089 p. Order from Irrigation Association (details on page 23).

299. © Differential response of liverwort (*Marchantia polymorpha*) tissue to POST-applied quinoclamine. Altland, J. E., Wehtje, G., Sibley, J., and Miller, M. E. Weed Technology 25:580-585. 2011.

300. © Integration of vinegar for in-row weed control in transplanted bell pepper and broccoli. Evans, G. J., Bellinder, R. R., and Hahn, R. R. Weed Technology 25:459-465. 2011.



301. © Light-activated, sensor-controlled sprayer provides effective postemergence control of broadleaf weeds in fallow. Riar, D. S., Ball, D. A., Yenish, J. P., and Burke, I. C. Weed Technology 25:447-453. 2011.

302. © Liverwort control using novel techniques. England, J. International Plant Propagators' Society, combined proceedings, 2010, 60:465-470. 2011.

303. © Manuka oil, a natural herbicide with preemergence activity. Dayan, F. E., Howell, J., Marais, J. P., and Ferreira, D. Weed Science 59:464-469. 2011.

304. © Mugwort control in an abandoned nursery using herbicides that mimic indole-3-acetic acid. Koepke-Hill, R. M., Armel, G. R., Klingeman, W. E., and Halcomb, M. A. HortTechnology 21(5):558-562. 2011.

305. Using essential oils to control moss and liverwort in containers. Khadduri, N. IN: National Proceedings: Forest and Conservation Nursery Associations -- 2010, p. 133-138. Riley, L.E., Haase, D.L. and Pinto, J.R. technical coordinators. USDA Forest Service, Rocky Mountain Research Station, Proceedings RMRS-P-65. 2011.

306. © Vegetative reproduction potential of common purslane (*Portulaca oleracea*). Proctor, C. A., Gaussoin, R. E., and Reicher, Z. J. Weed Technology 25:694-697. 2011.