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Bareroot Production

1. **Effect of root culturing practices on the survival and growth of 1 +0 silver oak (*Grevillea robusta* Parker) seedlings.** Misra, K. K.; Jaiswal, H. R. *Indian Journal of Forestry* 16(3): 287-289. 1993.

(SO). **Improving planting stock quality—the Humboldt experience.** Jenkinson, J. L.; Nelson, J. A.; Huddleston, M. E. USDA Forest Service, Pacific Southwest Research Station, General Technical Report PSW-143. 1993. Chapters: Reforestation and the nursery; Assessing planting stock quality; Seed source assessments; Assessing nursery culture alternatives; Moving into the '90's. ORDER FROM: USDA Forest Service, Pacific Southwest Research Station, P.O. Box 245, Berkeley, CA 94701-0245. Free.

Business Management

2. **Getting employees to solve problems on their own.** Kehoe, K. R. *American Nurseryman* 179(10):79-83. 1994. A step-by-step, common sense system for solving problems and making decisions.

3. **Hiring and keeping good employees.** Berry, J. B. *International Plant Propagators' Society, combined proceedings* 42:348-351. 1992. 1994.

4. **How to come to terms with ADA regulations.** Batts, J. *Nursery Manager* 9(12):64, 6668. 1993.

5. **Leasing: a viable alternative?** Bean, W. *Greenhouse Grower* 12(3):22, 24. 1994. Leasing can be a more cost-effective option than paying cash or bank financing.

6. **On legal grounds... when hiring.** Perry, P. M. *American Nurseryman* 179(9):58-65. 1994.

7. **Taming workers' comp.** Nawrocki, J. J. *American Nurseryman* 179(9):79-85. 1994.

8. **Training persons with mental disabilities as greenhouse integrated pest management scouts.** Eddy, R. T.; Sadof, C. S. *HortTechnology* 3(4):459-461. 1993.

9. **Tree seedling distribution program - G. White State Forest Nursery.** Biram, D. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM- 243, p. 143-148. Landis, T.D.,

ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

10. ***Understanding OSHA: what to do before the inspector arrives.*** Steingold, F. S. American Nurseryman 179(9):74-77. 1994.

Container Production

11. ***Benefits of progressively increasing container size during nursery production depend on fertilizer regime and species.*** Beeson, R. C., Jr. Journal of the American Society for Horticultural Science 118(6):752-756. 1993.

12. ***Comparison of chopped newspaper with microfoam for winter protection of container-grown nursery stock.*** Pellett, N.; Heleba, D. HortTechnology 4(1):55-57. 1994.

13. ***The copper connection: the benefits of growing woody ornamentals in copper-treated containers.*** Struve, D. K.; Arnold, M. A.; Beeson, R., Jr.; Ruter, J. M.; Svenson, S.; Witte, W. T. American Nurseryman 179(4):525-54, 56-61. 1994.

14. ***Effect of copper-treated containers on transplant survival and regrowth of four tree species.*** Struve, D. K. Journal of Environmental Horticulture 11(4):196-199. 1994.

15. ***Overview of the Speedling, Incorporated, transplant industry operation.*** Thomas, B. M. HortTechnology 3(4):406-408. 1993.

16. ***Plug + one production of Colorado blue spruce at the Colorado State Forest Service nursery.*** Moench, R. D. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 111-112. Landis, T.D., ed. Pro-

ceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

17. ***Sowing at 1.4-cm (0.6-inch) depth produces heaviest Douglas-fir roots in small containers.*** Minore, D.; Weatherly, H. G.; Cunningham, P. G. Tree Planters' Notes 44(3):122-124. 1993.

Diverse Species

18. ***Factors influencing the germination of seeds of Fallugia paradoxa (Rosaceae).*** Veit, V.; Van Auken, O. W. Texas Journal of Science 45(4):325-333. 1993.

19. ***Growing Indian paintbrush.*** Borland, J. American Nurseryman 179(6):48-50, 52-53. 1994.

20. ***Influence of dry storage on seed viability and germination of eight intermountain rushes.*** Hurd, E. G.; Shaw, N. L. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-226:220. Tellman, B.; Cortner, H.J.; Wallace, M.G.; DeBano, L.F.; Hamre, R.H., eds. Riparian management: common threads and shared interests. 1993.

21. ***Nursery grown plants for wetland mitigation projects.*** Beagle, G. A. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 105-110. Landis, T.D., ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

22. ***Propagating some native California perennials.*** Smith, M. N. International Plant Propagators' Society, combined proceedings 42:210-213. 1992. 1994.

23. **Woody plant selection for riparian agroforestry projects.** Schoeneberger, M. M. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM- 243, p. 123-129. Landis, T.D., ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

Fertilization and Nutrition

24. **Effects of light, nitrogen, and phosphorus on red pine seedling growth and nutrient use efficiency.** Elliott, K. J.; White, A. S. Forest Science 40(1):47-58. 1994.

25 **Effects of soil water content and initial root volume on the nutrient status of 2+0 Douglas-fir seedlings.** Haase, D. L.; Rose, R. New Forests 8(3):265-277. 1994.

26. **Foliar application of liquid urea-triazone-based nitrogen fertilizers and crop safety.** Clapp, J. G., Jr. HortTechnology 3(4):442-444. 1993.

27 **Growth and nutrition of small Betula pendula plants at different relative addition rates of manganese.** Goransson, A. Tree Physiology 14(4):375-388. 1994.

28 **Growth and nutrition of small Betula pendula plants at different relative addition rates of iron.** Goransson, A. Trees: Structure and Function 8(1):31-38. 1993.

29. **Irrigating and fertilizing to grow better nursery seedlings.** Kormanik, P. P.; Sung, S. S.; Kormanik, T. L. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 115-121. Landis, T.D., ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

30. **A look at: micron nutrient fertilizers.** Greenhouse Manager 12(12):101-102, 104-105. 1994.

31. **MacroMixer: a spreadsheet program to aid mixing macronutrients for solution culture.** Kawabata, O.; Criley, R. A. HortScience 28(11):1131-1132. 1993.

32. **Nitrate nitrogen movement through the soil profile beneath a containerized greenhouse crop irrigated with two leaching fractions and two wetting agent levels.** McAvoy, R. J. Journal of the American Society for Horticultural Science 119(3):446-451. 1994.

33. **Nitrogen and phosphorus interactions in an intensively managed nursery soil plant system.** Teng, Y.; Timmer, V. R. Soil Science Society of America Journal 58(1):232-238. 1994.

34. **Nitrogen nutrition of containerized citrus nursery plants.** Maust, B. E.; Williamson, J. G. Journal of the American Society for Horticultural Science 119(2):195-201. 1994.

35 **Potassium deficiency causes injuries to Picea pungens glauca in nurseries.** Alt, D.; Jacob, S.; Rau, N.; Wirth, R. Plant and Soil 155/156:427-429. 1993.

36 **Symptoms of mineral nutrient deficiencies and the nutrient concentration ranges in seedlings of Eucalyptus maculata Hook.** Dell, B.; Robinson, J. M. Plant and Soil 155/156:255-261. 1993.

37 **Unbalanced nutrient status and epicuticular wax of Scots pine needles.** Ylimartimo, A.; Paakkonen, E.; Holopainen, T.; Rita, H. Canadian Journal of Forest Research 24(3):522-532. 1994.

General and Miscellaneous

38. **Bootheel ag water quality and precise application project.** Holmes, B. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 39-41. Landis, T.D., ed. Proceedings: Northeastern and Intermountain

Forest and Conservation Nursery Associations. 1994. Describes prescription farming, where the application rates of inputs vary from point to point within a field.

39. ***Evolution of electronic communications to transfer agricultural weather information.***

Perry, K. B.; Getz, R. R.; Kimsey, H. R., Jr. HortTechnology 3(3):348-350. 1993.

40. ***Foresters and the EMAIL revolution: a glorious opportunity.*** Rose, S. Forestry Chronicle 70(1):55-57. 1994.

41. ***Increasing sustainability by intercropping.*** Coolman, R. M.; Hoyt, G. D. HortTechnology 3(3):309-312. 1993.

42. ***Limiting factors, high yields, and law of the maximum.*** Wallace, A.; Wallace, G. A. Horticultural Reviews 15:409-448. 1993. Crop yields have increased about 2.5% per year for the past 50 years. This paper outlines the important role of management in the continuation of progress, especially when coupled with plant breeding and possible advances from biotechnology.

43. ***A simple technique to randomize and label large experimental plantings.*** Okie, W. R.; Joyner, W. R.; Beckman, T. G. HortScience 29(2):123-125. 1994.

44. ***Using geographic information systems in a nursery.*** Westin, S. C. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 113. Landis, T.D., ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

(SO). ***Pacific Northwest nursery directory and report, 1994.*** USDA Forest Service, Pacific Northwest Region, State and Private Forestry. 54 p. 1994. Contains a directory of nurseries in Oregon, Washington, California, Idaho, Montana, and Nevada, and production statistics for bareroot and container stock from those nurser-

ies. ORDER FROM: USDA Forest Service, Pacific Northwest Region, State and Private Forestry, P.O. Box 3623, Portland, OR 97208. Free.

Genetics and Tree Improvement

45 ***Genetic improvement of tree species for remediation of hazardous wastes.*** Stomp, A. M.; Han, K. H.; Wilbert, S.; Gordon, M. P. In Vitro Cellular and Developmental Biology 29P(4): 227-232. 1993.

46. ***Genetic variation in the Ponderosae of the southwest.*** Rehfeldt, G. E. American Journal of Botany 80(3):330-343. 1993.

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50. ***Reforestation of South Korea: the history and analysis of a unique case in forest tree improvement and forestry.*** Kim, K. H.; Zsuffa, L. Forestry Chronicle 70(1):58-64. 1994.

51. ***Some genetic aspects of human intervention in forest regeneration: considerations based on examples from an experiment in northern Sweden.*** Ackzell, L.; Lindgren, D. Forestry 67(2): 133-148. 1994.

(SO). **Genetic variation and seed zones of Douglas-fir in the Siskiyou National Forest.** Campbell, R. K.; Sugano, A. I. USDA Forest Service, Pacific Northwest Research Station, Research Paper PNW-461. 23 p. 1993. ORDER FROM: USDA Forest Service, Pacific Northwest Research Station, P.O. Box 3890, Portland, OR 97208. Free.

Mycorrhizae and Beneficial Microorganisms

52. **Current status of outplanting studies using ectomycorrhiza- inoculated forest trees.** Castellano, M. A. IN: Mycorrhizae and plant health, p. 261-281. F.L. Pflieger and R.D. Linderman, eds. American Phytopathological Society. 1994.

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54 **Effect of mineral nutrition on the germination of basidiospores of Rhizopogon luteolus in the rhizosphere of Pinus radiata.** Theodorou, C. Soil Biology and Biochemistry 25(6):647- 649. 1993.

55 **The effectiveness of ectomycorrhizal fungi in increasing the growth of Eucalyptus globulus Labill. in relation to root colonization and hyphal development in soil.** Thomson, B. D.; Grove, T. S.; Malajczuk, N.; Hardy, G. E. S~ J. New Phytologist 126(3):517-524. 1994.

56. **The effects of cultural practices and pesticides on VAM fungi.** Kurle, J. E.; Pflieger, F. L. IN: Mycorrhizae and plant health, p. 10 1-131. F.L. Pflieger and R.D. Linderman, eds. American Phytopathological Society. 1994.

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F.L. Pflieger and R.D. Linderman, eds. American Phytopathological Society. 1994.

58 **Effects of mycorrhizal inoculation and fertilizer regime on emergence of Sitka spruce seedlings in bare-root nursery seedbeds.** Ingleby, K.; Wilson, J.; Mason, P. A.; Munro, R. C.; Walker, C.; Mason, W. L. Canadian Journal of Forest Research 24(3):618-623. 1994.

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62. **The importance of mycorrhiza to forest trees.** Malajczuk, N.; Jones, N.; Neely, C. The World Bank, Asia Technical Department, Agriculture Division. Land Resources Series no. 2. 1993. 27 p.

63 **Interactions between mycorrhizal fungi and other soil organisms.** Fitter, A. H.; Garbaye, J. Plant and Soil 159(1): 123-132. 1994.

64. **Involvement of cropping systems, plant produced compounds and inoculum production in the functioning of VAM fungi.** Safer, G. R. IN: Mycorrhizae and plant health, p. 239-259. F.L. Pflieger and R.D. Linderman, eds. American Phytopathological Society. 1994.

65 ***Nitrate uptake in maritime pine (*Pinus pinaster* and the ectomycorrhizal fungus *Hebeloma cylindrosporum*: effect of ectomycorrhizal symbiosis.*** Plassard, C.; Barry, D.; Eltrop, L.; Mousain, D. Canadian Journal of Botany 72(2):189-197. 1994.

66 ***Possible role of soil microorganisms in aggregation in soils.*** Tisdall, J. M. Plant and Soil 159(1):115-121. 1994.

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68. ***Role of ectomycorrhizal fungi in biocontrol.*** Duchesne, L. C. IN: Mycorrhizae and plant health, p. 27-45. F.L. Pflieger and R.D. Linderman, eds. American Phytopathological Society. 1994.

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(SO). ***Mycorrhizae and plant health.*** Pflieger, F. L.; Linderman, R. G. American Phytopathological Society. 344 p. 1994. ORDER FROM: American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, MN 55121-2097. Phone: 1-800-328-7560. Price: \$39 in U.S.; \$48 elsewhere.

Nursery Structures and Equipment

73. ***1993 Missoula Technology and Development Center nursery and reforestation projects.*** Karsky, R. J. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 33-38. Landis, T.D., ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994. Discusses various projects, including machine vision, seedling counter, root pruner, seed separator, smart toolbar, hardwood cuttings planter, scarification for natural regeneration of hardwoods, steep slope site preparation, seedling protection, mulch, pollen equipment and a portable power platform.

74. ***Accuracy of quantum sensors measuring yield photo flux and photosynthetic photo flux.*** Barnes, C.; Tibbitts, T.; Sager, J.; Deitzer, G.; Bubenheim, D.; Koerner, G.; Bugbee, B. HortScience 28(12):1197-1200. 1993.

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82. **Reduce your labor and energy costs by upgrading greenhouse controls.** Whitten, M. Greenhouse Manager 12(11):62-64, 66-67, 68-71. 1994. Contains several short articles: It doesn't cost a fortune. Improved controls provide quick paybacks. First step: electronic thermostats. Automation benefits all, big or small. A look at: environmental computers.
83. **Relative costs of a weed-activated versus conventional sprayer in northern Great Plains fallow.** Ahrens, W. H. Weed Technology 8(1):50-57. 1994.
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86. **Step-by-step guide to retrofitting with screens.** Baker, J. R.; Shearin, E. A. Greenhouse Manager 13(3):78-79. 1994.
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88. **Top 4 reasons why your cooling system may be less than efficient - and how you can fix it.** Thomas, S. H. Greenhouse Manager 13(1):62. 1994.

89. **Try these beneficial light sources.** Bartok, J. W., Jr. Greenhouse Manager 13(3):97, 99. 1994.
90. **Venting the heat from greenhouses.** Bartok, J. W., Jr. Greenhouse Manager 13(1):83-84. 1994.

Outplanting Performance

- *91* **Comparing natural and planted black spruce seedlings. 1. Water relations and growth.** Bernier, P. Y. Canadian Journal of Forest Research 23(11):2427-2434. 1993.
- *92* **Comparing natural and planted black spruce seedlings. II. Nutrient uptake and efficiency of use.** Munson, A. D.; Bernier, P. Y. Canadian Journal of Forest Research 23 (11):2435-2442. 1993 .
- *93* **A comparison of planting, sowing and natural regeneration for *Pinus sylvestris* (L.) in boreal Sweden.** Ackzell, L. Forest Ecology and Management 61(3-4):229-245. 1993.
94. **Effect of seedling age and taproot length on performance of oak.** Chaney, W. R.; Byrnes, W. R. Northern Journal of Applied Forestry 10(4):175-178. 1993.
95. **Effects of Viterro root dips and benomyl on root growth potential and survival of longleaf pine seedlings.** South, D. B.; Loewenstein, N. J. Southern Journal of Applied Forestry 18(1):19-23. 1994.
- *96* **Fall lifting and long-term freezer storage of ponderosa pine seedlings: effects on starch, root growth, and field performance.** Omi, S. K.; Rose, R.; Sabin, T. E. Canadian Journal of Forest Research 24(3):624-637. 1994.
97. **Field performance of container systems in British Columbia.** Johnson, C. M. Forestry Chronicle 70(2):137-139. 1994.

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100. **Frost heaving of softwood seedlings, planted on a sandy clay loam site.** Nova Scotia Department of Natural Resources, Forest Research Report 40. 11 p. 1992.

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* 102* **Interactions among seedling diameter grade, weed control, and soil cultivation for *Pinus radiata* in South Africa.** South, D. B.; Zwolinski, J. B.; Donald, D. G. M. Canadian Journal of Forest Research 23(10):2078-2082. 1993.

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(SO). **Effects of removal of the paperpot container on growth and development of black spruce seedlings on a drained peatland clearcut in northeastern Ontario.** Sundstrom, E. Forestry Canada, Great Lakes Forestry Centre, Information Report O-X-418. 22 p. 1992. ORDER FROM: Communications Services, Forestry Canada, Ontario Region, Great Lakes Forestry Centre, P.O. Box 490, Sault Ste. Marie, Ontario P6A 5M7 Canada. Free.

(SO). **Provincial seedling stock type selection and order guidelines.** Scagel, R.; Bowden, R.; Madill, M.; Kooistra, C. British Columbia Ministry of Forests. 75 p. 1993. Provides a framework for the selection of stock types suitable for the different planting seasons and sites in British Columbia. Documents the logic and reference tables necessary for making an informed stock type selection and provides tips for maintaining stock quality and vigor during the planting process. ORDER FROM: British Columbia Ministry of Forests, Silviculture Branch, 31 Bastion Square, Victoria, BC V8W 3E7 Canada. Phone: (604) 387-8903. Free.

(SO). **Tree and shrub planting handbook: a guide for conservation plantings in Utah and Nevada.** Townsend, L. R.; Schen, D. C.; Murphy, P.; Hanson, M. L. Utah Division of State Lands and Forestry. 1993. Chapters: Landowner objectives and benefits; Planning and design considerations; Species selection matrices; Planting guidelines; Establishment and maintenance. ORDER FROM: Utah Division of State Lands and Forestry, Salt Lake City, Utah. \$35.00 + S&H

Pest Management

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Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 91-96. Landis, T.D., ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

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119. **Green manure effects on soilborne pathogens.** Stone, J. K.; Hansen, E. M. IN: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-243, p. 57-64. Landis, T.D., ed. Proceedings: Northeastern and Intermountain Forest and Conservation Nursery Associations. 1994.

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