

New Nursery Literature

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Special Publications

- SO.** Bonner, F.T.; Vozzo, J.A.; Elam, W.W.; Land, S.B. Jr. 1994. **Tree Seed Technology Training Course—Instructor's Manual.** General Technical Report SO-106. New Orleans, LA: USDA Forest Service, Southern Forest Experiment Station. 160 p.

This softbound publication contains chapters on seed biology, collection, and handling; evaluation of seed-quality; seed protection; basic seed propagation; and seed programs as well as a practical laboratory exercises for students and a course evaluation. It is well illustrated with black-and-white drawings and notably, contains information on both temperate and tropical tree species. The Manual could be used to train seed collectors, seed-plant workers, seed analysts, nursery crews, as well as regeneration specialists. It is the companion publication for GTR SO-107 - see next listing.

- SO.** Bonner, F.T.; Vozzo, J.A.; Elam, W.W.; Land, S.B. Jr. 1994. **Tree Seed Technology Training Course—Student Outline.** General Technical Report SO-107. New Orleans, LA: USDA Forest Service, Southern Forest Experiment Station. 81 p.

This softbound publication is the companion for the Instructor's Manual (GTR SO106) - see previous listing. As such, it contains the same chapters but with less detail as well as some of the same illustrations. This book is intended as a take-home reference for students taking the training course.

Ordering information for both publications of the Tree Seed Technology Training Course are as follows:

Cost: Free

Order From:

USDA Forest Service
Southern Forest Experiment Stn.
Publications Distribution 701
Loyola Ave. Rm. T-10210
New Orleans, LA 70113-1920
Tel: 504-589-6800
Fax: 504-589-3961

- SO. Moulton, R.J.; Lockhart, F.; Snellgrove, J.D. 1995. **Tree Planting in the United States, 1994.** Washington, DC: USDA Forest Service, Cooperative Forestry. 18 p.

This annual report summarized tree planting, tree improvement, and nursery production for the United States, and is a must for anyone interested in long-term trends (Figure O). The data is organized by both State-by-State and land ownership, and presented in tables and pie charts. Of particular interest to nursery managers are the statistics on nursery production by ownership category (Figure P) and a table of production by state. Those of you who were always confused by the acronyms of the various types of USDA Tree Planting Assistance Programs, such as FIP, ACP, and SIP will appreciate the section explaining how they work.

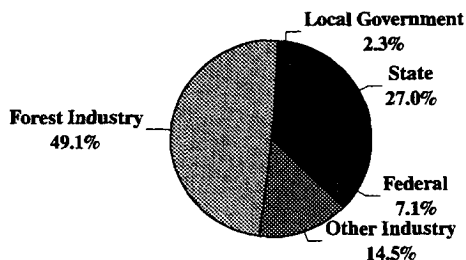


Figure P: US Nursery Production by Ownership Class (from Moulton and others)

- SO. Odum K.D.; Ng, P. 1995. Selecting greenhouse temperatures to control black spruce and jack pine seedling growth: pocket guide. Saint Ste. Marie, ON: Ontario Forest Research Institute. 36 p.

This small format, full color book presents seedling growth information and 3-dimensional response curves for the day and night temperatures for black spruce and jack pine seedlings. Growth parameters include shoot length; root collar diameter; shoot, root, and total biomass; shoot-to-root ratio; and height-to-diameter ratio. This will be valuable not only to growers raising these species but also to plant physiologists and others interested in seedling development.

Cost:
Free

Order From:
Robert Moulton
USDA Forest Service
Cooperative Forestry
PO Box 96090
Washington, DC 20090-6090
USA
Tel: 202-205-1376
Fax: 202-205-1271

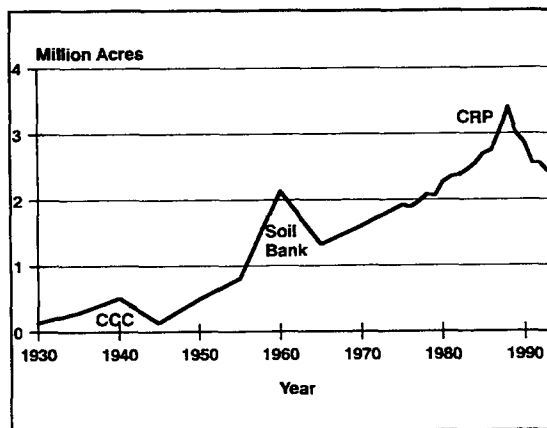


Figure O: National Tree Planting Trends in the US show peaks caused by national programs including the Civilian Conservation Corps, the Soil Bank, and the Conservation Reserve Program (from Moulton and others).

Cost:
Free

Order From:
Technology Transfer Department
Ontario Forest Research Institute
PO Box 969, 1235 Queen St. East
Sault Ste. Marie, ON P6A 6J8
CANADA
Tel: 705-946-2981
Fax: 705-946-2030

Surplus Publications

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- A) Lantz, C.W. ed. 1984. Southern pine nursery handbook. USDA Forest Service, Southern Region. 289 p+Appendices

This classic book contains 18 different chapters on all phases of bareroot production of southern pine seedlings. It contains the accumulated knowledge of Jack May and Earl Belcher, as well as other nursery specialists. The format is loose-leaf, 3-hole punched and ready for your binder.

- B) Tree Planter's Notes, Volume 45, Number 2 (Spring 1994)
- C) Tree Planter's Notes, Volume 45, Number 2 (Summer 1994)

Container Tree Nursery Manual Update

The publication of *Volume One: Nursery Planning, Development, and Management* was announced in the January, 1995, issue of FNN, along with instructions for ordering a free copy (#B on the Literature Order Form for that issue). In case you had ordered one and were wondering where it was, the actual publication took about 5 months longer than we had anticipated. Nothing moves very fast in Washington, DC! Anyway, we finally received our supply of Volume One in mid-June and mailed a copy out to everyone who had ordered one by the end of the month. If you haven't received yours by the time you receive this FNN issue, then let us know and we'll see that you get one. Sorry for the delay!

We have also been trying to keep the other volumes of the CTNM in stock, but it hasn't been easy. The current status is given on the table on the opposite page, along with letters for ordering copies.

FNN Database

The technical references that are listed in each issue of *Forest Nursery Notes* are also entered into a computer database using a software package called Pro-Cite®, which currently contains over 7,500 listings. The database is maintained by a private librarian, Donna Loucks, who can provide copies of the database on a fee basis to people who have the computer software. She can also do computer searches and provide hard copies of articles for people who do not want to buy the software. For more information on any of these services, contact:

Donna M. Loucks
Forestry Information Specialist
P.O. Box 638
Centralia, WA 98531
Tel: 360-736-2147

Availability and Projected Publication Schedule of the Container Tree Nursery Manual

One free copy of available volumes of the Manual will be sent to cooperators. If you need more than one copy, then you must purchase them from the US Government Bookstore:

Volume Number	Title	Publication Date	Stock Number And Price
D) Volume One	Container Nursery Planning, Development, and Management	1995	001-001-00654-8 \$24.00?
E) Volume Two	Containers and Growing Media	1990	001-001-00644-1 \$9.50?
F) Volume Three	Atmospheric Environment	1992	001-001-00648-3 \$16.00?
G) Volume Four	Seedling Nutrition and Irrigation	1989	001-001-00635-1 \$15.00?
H) Volume Five	Biological Influences: Nursery Pests and Mycorrhizae	1990	001-001-00633-5 \$30.00?
Volume Six	Seedling Propagation	(1996)	
Volume Seven	Seedling Processing, Storage, and Outplanting	(1998)	
() = Estimated Publication Date			
? = There is a 25% Surcharge for foreign orders			

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Special Order (SO) articles or publications must be ordered directly from the publisher. Prices and ordering instructions follow each listing.

Bareroot Production

1. **Additional tests of root pruning loblolly pine seedlings in the seedbed.** Dierauf, T. A.; Scrivani, J. A.; Chandler, L. Virginia Department of Forestry, Occasional Report 115. 14 p. 1995.
2. **Bed density alters stem density of loblolly pine seedlings.** Zwolinski, J.; Ferreira, M. Auburn University, Southern Forest Nursery Management Cooperative, Research Note 952. 3 p. 1995.
3. **Root pruning white pine seedlings in the seedbed.** Dierauf, T. A.; Scrivanik J.A.; Chandler, L. Virginia Department of Forestry, Occasional Report 116. 17 p. 1995.
4. **Transplanting time controls size and balance of 1-1 Douglas-fir.** Nelson, J. A.; Jenkinson, J. L. Humboldt Nursery Diverse Species Culture Unit report to Pacific Southwest Region, Pacific Northwest Region and USDI Bureau of Land Management. 17 p. 1992.

Business Management

5. **Get on the information superhighway.** Rhodus, T. Greenhouse Grower 12(10):22, 24. 1994.
6. **Get profits on line with computer software.** Aylsworth, J. D. Greenhouse Grower 12(13):24, 26-27, 29-30. 1994.
7. **Horticulture zooms onto the information superhighway.** Erwin, J. E. Greenhouse Management and Production 13(11):84-86. 1995.
8. **How to impress the inspector.** Kren, L. A. Greenhouse Grower 12(8):103- 104. 1994. Awareness of health, safety, and environmental issues is the best way to prepare for inspections.
9. **Labor savings around the clock.** Ohofrey, D. Greenhouse Grower 13(4):27- 28, 30,32. 1995. Computer program tracks time required for different tasks.
10. **NAHSA releases bar code standards.** Greenhouse Grower 11(12):56-57. 1993.
11. **The networking edge.** Eppler, M. T. American Nurseryman 181(1):53-59. 1995. An experienced business consultant tells how to benefit from the experience of others.
12. **Recycling's bottom line.** Firt, K. M. Greenhouse Grower 12(8):122, 124. 1994. Let your wallet be your guide as to whether the benefits of recycling are worth the extra effort of handling and storage.
13. **Test your environmental I.Q., part 1: Can you pass an environmental exam?** Firth, K. M. Greenhouse Grower 12(10):61-64. 1994. Guidance for conducting your own environmental audit.

14. **Test your environmental I.Q., part 4: Wrap-up.** Firth, K. M. *Greenhouse Grower* 12(14):47-50. 1994. Reviews waste reduction, underground storage tanks, emergency planning, recordkeeping, worker protection standard, and special greenhouse rules.
15. **Your expert on call.** Shipp, L.; Papadopoulos, T.; Jarvis, B.; Jewett, T.; Clarke, N. *Greenhouse Grower* 12(13):18-20, 22. 1994.

Container Production

16. **Copper hydroxide affects root distribution of *Ilex cassine* in plastic containers.** Gilman, E. F.; Beeson, R. J. *HortTechnology* 5(1):4849. 1995.
17. **Gutless and atrimtec for controlling growth of woody landscape plants in containers.** Banko, T. J.; Stefani, M. A. *Journal of Environmental Horticulture* 13(1):22-26. 1995.
18. © **Irrigation regime affects water and aeration conditions in peat growth medium and the growth of containerized Scots pine seedlings.** Heiskanen, J. *New Forests* 9(3):181-195. 1995.
19. **Nursery production: growing western white pine and western redcedar in greenhouses.** Wenny, D. L.; Dumroese, R. K. IN: Interior cedar - hemlock - white pine forests: ecology and management, p. 261-266. Held March 24, 1993, Spokane, Washington. Washington State University, Department of Natural Resource Sciences. 1994.
20. **Shoot and root responses of eight subtropical species grown in cupric hydroxide-treated containers.** Svenson, S. E.; Johnston, D. L.; Coy, B. L. *HortScience* 30(2):249-251. 1995.

Diverse Species

21. **Collecting, processing, and storing desert seeds: notes from an innocent abroad.** Bainbridge, D. A. IN: Proceedings of the joint meeting of the B.C. Seed Dealers' Association and the Western Forest and Range Seed Council, p.9-12. Held June 2-4, 1993, Vernon, B.C., Canada. Forestry Canada and British Columbia Ministry of Forests. 1993.
22. **The effect of containerless transport on desert shrubs.** Fidelibus, M. W.; Bainbridge, D. A. *Tree Planters' Notes* 45(3):82-85. 1994.
23. **The establishment of *Scirpus tabernaemontani* (formerly *Scirpus validus*) from large and small rhizomes as a function of water depth.** Garbisch, E. W.; McIninch, S. M. *Wetland Journal* 6(4):17-21. 1994.
24. © **Interactions between native prairie grasses and indigenous arbuscular mycorrhizal fungi: implications for reclamation of taconite iron ore tailing.** Noyd, R. K.; Pfleger, F. L.; Russelle, M. P. *New Phytologist* 129(4):651-660. 1995.
25. **Osmotic priming or chilling stratification improves seed germination of purple coneflower.** Wartidiningsih, N.; Geneve, R. L.; Kester, S. T. *HortScience* 29(12):1445-1448. 1994.
26. **Seed source and quality influence germination in purple coneflower [*Echinacea purpurea* (L.) Moench.].** Wartidiningsih, N.; Geneve, R. L. *HortScience* 29(12):1443-1444. 1994.

SO. **Complete garden guide to the native shrubs of California.** Keator, G. Chronicle Books. 314 p. 1994. Chapters: The habitats of native shrubs; Techniques for native shrub planting and care; Management of soil and water; Sources of native shrubs; Propagation of native shrubs; Significant features of shrubs in the garden; Landscapes using native shrubs; Encyclopedia of native shrubs. ORDER FROM: Chronicle Books, 275 Fifth St., San Francisco, CA 94103. Phone (415) 777-7240 or 800-722-6657.

Fertilization and Nutrition

- 27.© **Calcium and pH interaction on root modulation of nursery-grown red alder (*Alnus rubra* Bong.) seedlings** by Frankia. Crannell, W. K.; Tanaka, Y.; Myrland, D. D. *Soil Biology and Biochemistry* 26(5):607-614. 1994.
- 28.© **Copper nutrition of *Eucalyptus maculata* Hook.** seedlings: Requirements for growth, distribution of copper and the diagnosis of copper deficiency. Dell, B. *Plant and Soil* 167(2):181-187. 1994.
- 29.© **Does nitrogen fertilization have an impact on the trade-off between willow growth and defensive secondary metabolism?** Hakulinen, J.; Julkunen-Tiitto, R.; Tahvanainen, J. *Trees: Structure and Function* 9(4):235-242. 1995.
30. **Don't leach out profits.** Steinkamp, R. *Greenhouse Grower* 13(1):136-138, 140. 1995. By monitoring crops using an EC meter, you can grow quality plants with reduced fertility.
31. **Effect of nitrogen fertilization rate in the seedbed on growth in the field.** Dierauf, T. A.; Chandler, L. Virginia Department of Forestry, Occasional Report 121.6 p. 1995.
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- 33.© **Effects of a catch crop on leaching of nitrogen from a sandy soil: simulations and measurements.** Lewan, E. *Plant and Soil* 166(1):137-152. 1994.
- 34.© **Growth and nutrition of birch seedlings at varied relative addition rates of magnesium.** Ericsson, T.; Kahr, M. *Tree Physiology* 15(2):85-93. 1995.
- 35.© **Iron availability in plant tissues - iron chlorosis on calcareous soils.** Mengel, K. *Plant and Soil* 165(2):275-283. 1994.
36. **Nitrate leaching at a coastal plain nursery in Alabama.** McNabb, K. Auburn University, Southern Forest Nursery Management Cooperative, Research Note 95-4. 5 p. 1995.
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General and Miscellaneous

39. **Carpal tunnel syndrome - identifying the risk factors in forest industry operations.** Oliver, M. L.; Rickards, J. *Journal of Forest Engineering* 6(2):51-58. 1995.

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42. **Taxus populations and clippings yields at commercial nurseries.** Hansen, R. C.; Cochran, K. D.; Keener, H. M.; Croom, E. M. Jr. HortTechnology 4(4):372-377. 1994.
- SO. **NIOSH pocket guide to chemical hazards.** Department of Health and Human Services, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 94-116. 398 p. 1994. Lists chemical name, structure, exposure limits, chemical and physical properties, reactivities, health hazards. ORDER FROM: Government Printing Office, Superintendent of Documents, Washington, DC 20402. Phone (202) 783-3238. Stock No. 017-033-00473-1. Also available in electronic format.
- SO. **Workplace use of back belts: review and recommendations.** Department of Health and Human Services, National Institute for Occupational Safety and Health, Back Belt Working Group. DHHS(NIOSH) Number 94-122. 25 p. 1994. ORDER FROM: Publications Dissemination, DSDTT, NIOSH, 4676 Columbia Parkway, Cincinnati, OH 45226-1998. Fax (513) 533-8573.

Genetics and Tree Improvement

43. **Characterization of *Pinus pinaster* seedling growth in different photo- and thermoperiods in a phytotron as a basis for early selection.** Nguyen, A.; Dorn-Fling, L.; Kremer, A. Scandinavian Journal of Forest Research 10(2):129-139. 1995.

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Mycorrhizae and Beneficial Microorganisms

45. © **Arbuscular mycorrhizal induced changes to plant growth and root system morphology in *Prunus cerasifera*.** Berta, G.; Trotta, A.; Fusconi, A.; Hooker, J. E. Munro, M.; Atkinson, D.; Giovannetti, M.; Morini, S.; Fortuna, P.; Tisserant, B.; GianinazziPearson, V.; Gianinazzi, S. Tree Physiology 15(5):281-293. 1995.
46. © **Contribution of ectomycorrhiza to the potential nutrient-absorbing surface of pine.** Rousseau, J. V. D.; Sylvia, D. M.; Fox, A. J. New Phytologist 128(4):639-644. 1994.
47. © **The effect of ectomycorrhizal fungi on Zn uptake and distribution in seedlings of *Pinus sylvestris* L.** Bucking, H.; Heyser, W. Plant and Soil 167(2):203-212. 1994.
48. © **Effect of elevated CO₂ on mycorrhizal colonization of loblolly pine (*Pinus taeda* L.) seedlings.** Lewis, J. D.; Thomas, R. B.; Strain, B. R. Plant and Soil 165(1):81-88. 1994.
49. © **The effect of soil phosphorus on the external mycelium growth of arbuscular mycorrhizal fungi during the early states of mycorrhiza formation.** de Miranda, J. C. C.; Harris, P. J. Plant and Soil 166(2):271-280. 1994.
50. © **Effects of high nitrogen concentrations on ectomycorrhizal structure and growth of seedlings of *Picea abies* (L.) Karst.** Brunner, L.; Scheidegger, C. New Phytologist 129(1):83-95. 1995.

51. © **Enhancement of growth and establishment of oak seedlings (*Quercus ithaburensis* Decaisne) by inoculation with *Azospirillum brasilense*.** Zaady, E.; Perevolotsky, A. *Forest Ecology and Management* 72(1):8183. 1995.
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53. © **Growth and assimilation of NH₄⁺ and NO₃⁻ by *Paxillus involutus* in association with *Betula pendula* and *Picea abies* as affected by substrate pH.** Ek, H.; Andersson, S.; Arnebrant, K.; Soderstrom, B. *New Phytologist* 128(4):629-637. 1994.
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55. **The influence of fertilization on ectomycorrhizal colonization of *Pinus patina* roots.** Carlson, C. A. *South African Forestry Journal* 171:1-6. 1994.
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57. © **A new hypothesis to explain allocation of dry matter between mycorrhizal fungi and pine seedlings in relation to nutrient supply.** Wallander, H. *Plant and Soil* 168-169:243-248. 1995.
58. © **Structure and function of the ectomycorrhizal association between *Paxillus involutus* (Batsch) Fr. and *Belula pendula* Roth. I. Dynamics of mycorrhiza formation.** Brun, A.; Chalot, M.; Finlay, R. D.; Soderstrom, B. *New Phytologist* 129(3):487-493. 1995.
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- Nursery Structures and Equipment**
60. **The bottom line on heating.** Hopkins, M. T. *Greenhouse Grower* 12(14):26, 28, 30. 1994. Basics on bench or floor heating systems.
61. **Choose the fan that fits.** *Greenhouse Grower* 12(4):18-19. 1994.
62. **Choose the right microscreening.** Gill, S. A.; Ross, D. S. *Greenhouse Grower* 12(6):72-74. 1994.
63. **Cool off: vent your hot air frustrations with these basic guidelines to effective cooling.** Hopkins, M. T. *Greenhouse Grower* 13(4):18-20. 1995.
64. **Coverings: how they rate.** Papadopoulos, A. P. *Greenhouse Grower* 12(8):19. 1994. Double polyethylene, glass, and acrylic -which is better?
65. © **Development and field evaluation of a hydropneumatic planter for primed vegetable seeds.** Far, J. J.; Upadhyaya, S. K.; Shafii, S. *Transactions of the American Society of Agricultural Engineers* 37(4):1069-1075. 1994.
66. **Dispose of old ideas about plastics.** Aylsworth, J. D. *Greenhouse Grower* 13(1):63-65. 1995. Use greenhouse films for fuel?
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69. **The heat is off.** Martinez, H. Greenhouse Management and Production 13(11):67, 71-74. 1995. Heater corrosion proves to be costly experience for Georgia grower.
70. **The heat is on.** Ibarbia, E. A. Greenhouse Grower 12(14):22, 24-25. 1994.
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72. **Insect microscreening: its time has come.** Gill, S. A.; Ross, D. S. Greenhouse Grower 12(5):77, 80-82. 1995.
73. **It's time to check your equipment.** Carlson, W. Greenhouse Grower 12(14):17-18, 20-21. 1994. Heating equipment and injection equipment are the two most likely to malfunction.
74. **A look at: polyethylene film fasteners.** Roskens, L. Greenhouse Management and Production 14(3):48-50. 1995.
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77. **Manufactured shade: Choosing the right material won't leave you—or your plants—in the dark.** Davis, T. Nursery Management and Production 11(4):41-43. 1995.
78. **Microscreening: putting it to work.** Gill, S. A.; Ross, D. S. Greenhouse Grower 12(8):5354, 57-58. 1994.
79. **On target with low volume sprayers.** Getting, R. D. Greenhouse Grower 13(1):176-178. 1995.
80. **Remodeling greenhouses: consider a 10-year plan.** Bartok, J. W., Jr. Greenhouse Management and Production 14(4):72-73. 1995.
81. **Shades of summer.** Onofrey, D. Greenhouse Grower 12(4):20-22. 1994.
82. © **Sorting cut roses with machine vision.** Steinmetz, V.; Delwiche, M. J.; Giles, D. K.; Evans, R. Transactions of the American Society of Agricultural Engineers 37(4):1347-1353. 1994.
83. **Transplanting: is the choice automatic?** Bartok, J., Jr. Greenhouse Grower 12(8):46, 48. 1994. Conveyor transplanting systems can help grower increase production efficiency.
84. **Wind-protected sprayer for single- and multiple-row field plot nurseries.** Jolliff, G. D.; Seddigh, M.; Crane, J. M. Agronomy Journal 87(2):278-279. 1995.

Outplanting Performance

85. **Comparing methods of artificially regenerating loblolly and slash pines: container planting, bareroot planting, and spot seeding.** Haywood, J. D.; Barnett, J. P. Tree Planters' Notes 45(2):63-67. 1994.
86. **Effects of pocket gophers, bracken fern, and western coneflower on survival and growth of planted conifers.** Ferguson, D. E.; Adams, D. L. Northwest Science 68(4):241-249. 1994.
87. **Establishment of white oak seedlings with three post-plant handling methods on deep-tilled minesoil during reclamation.** Kjelgren, R.; Cleveland, B.; Foutch, M. Journal of Environmental Horticulture 12(2):100-103. 1994.

88. **Field performance of grade 1 and 2 loblolly seedlings from a top clipping study.** Dierauf, T. A.; Chandler, L. A. Virginia Department of Forestry, Occasional Report 120. 5 p. 1995.
89. © **Frost heaving of forest tree seedlings: a review.** Goulet, F. *New Forests* 9(1):67-94. 1995.
90. © **Gas exchange, water relations and morphology of yellow-cedar seedlings and stecklings before planting and during field establishment.** Folk, R. S.; Grossnickle, S. C.; Russell, J. H. *New Forests* 9(1):1-20. 1995.
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