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Sloan, J. P. USDA Forest Service, intermountain Research Station, Research Note INT-408.8 p. 1992.
2. ***Evaluation of sprayable latex mulches in nursery application.*** Stauder, A. F. III
Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 39-41. 1992.

3. **Root undercutting and wrenching of 2+0 Scotch pine.** McLeod, G. R; Bunting, W. R Ontario Ministry of Natural Resources, Nursery Note 128. 7 p. 1993.

Business Management

4. **Application of linear programming to forest nursery planning.** Kumar, R; Rawat, J. K. Indian Journal of Forestry 1 S(3):254-259. 1992.
- *5 * **Reforestation delay tolerance under the Forestry Incentives Program.** Nodine, S. K. Canadian Journal of Forest Research 23(3):414-426. 1993.
6. **Trading wood for plastic.** Sorvig, K. American Nurseryman 177(11):58-63. 1993. Plastic "woods" made from recycled materials hold promise for the nursery, landscape and garden center.
7. **What you should know about environmental audits.** Neal, K. Greenhouse Manager 12(2):82-83. 1993.

Container Production

8. **Egress of jack pine roots from perforated and non-perforated paperpot containers.** Templeton, C. W. G.; Colombo, S. J. Ontario Ministry of Natural Resources, Ontario Forest Research Institute, Forest Research Note 50. 4 p. 1993.
9. **A growing regime for container-grown Douglas-fir seedlings.** Wenny, D. L.; Dumroese, R. K. University of Idaho, Forest, Wildlife and Range Experiment Station, Bulletin 49. 8 p. 1992.

10. **The ISSA system for production of container tree seedlings.** Amorini, E.; Fabbio, G. Tree Planters' Notes 43(4): 146-149. 1992.
11. **Mead woodlands greenhouse facility.** Rice, F. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 62-65. 1992.

Fertilization and Nutrition

- * 12* **Effects of aluminum on growth and cation uptake in seedlings of Eucalyptus mannifera and Pinus radiata.** Huang, J.; Bachelard, E. P. Plant and Soil 149(1):121127. 1993.
13. **Olivine: a potential magnesium source for container production.** Warren, S. L.; Shelton, J. E. Journal of Environmental Horticulture 11(1):31-35. 1993.

General and Miscellaneous

14. **Agricultural plastics as solid waste: what are the options for disposal?** Hemphill, D. D. , Jr. HortTechnology 3(1):70-73. 1993.
15. **Private sector nurseries in Michigan.** Peterson, J. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 6-10. 1992.
16. **The role of the public nurseries in Michigan.** Botti, B. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 2-5. 1992.
- SO. **Tree planting in the United States 1992.** Moulton, R. J.; Mangold, R. D.; Snellgrove, J. D. USDA Forest Service, State and Private Forestry. 1993. ORDER FROM: USDA Forest Service, P.O. Box 96090, Washington, DC 20090-6090. Free.

SO. *Northeastern area nurserymen's conference, proceedings, 1992*. Northeastern State, Federal and Provincial Nursery Association, Michigan Department of Natural Resources, and Mead Corporation. Held July 27-29, 1992, Escanaba, MI. 1992. Papers are also listed individually. ORDER FROM: Michigan Dept. of Natural Resources, Wyman State Forest Nursery, Route 2, Box 2004, Manistique, MI 49854. Price: \$8.00, payable to Northeastern State, Federal and Provincial Nursery Association.

Mycorrhizae and Beneficial Microorganisms

- * 17* *The effect of Paxillus involutus Fr. on aluminum sensitivity of Norway spruce seedlings*. Hentschel, E.; Godbold, D. L.; Marschner, P.; Schlegel, H.; Jentschke, G. *Tree Physiology* 12(4):379-390. 1993.
18. *Separation of vesicular-arbuscular mycorrhizal fungus and root effects of soil aggregation*. Thomas, R. S.; Franson, R. L.; Bethlenfalvay, G. J. *Soil Science Society of America Journal* 57(1):77-81. 1993.
19. *Soil microbial processes and dynamics: their importance to effective reclamation*. Zak, J. C.; Fresquez, P. R.; Visser, S. IN: *Evaluating reclamation success: the ecological consideration*, p. 3-16. J.C. Chambers and G.L. Wade, eds. USDA Forest Service, Northeastern Forest Experiment Station, General Technical Report NE-164. 1992.

Nursery Structures and Equipment

20. *Development of shade house system for vegetative propagation studies*. Jayachandran, C. K.; Thirunavoukkarasu, M.; Venkataramanan, K. S.; Ganesan, M.; Gurumurti, K. *Indian Journal of Forestry* 15(3):234-238. 1992.
21. *Eight reasons why you should use a conveyor system at your operation*. Bartok, J. W., Jr. *Greenhouse Manager* 12(1):112-113. 1993.
- *22* *An experimental automatic repotting machine for hardy ornamental nursery stock*. Tillett, N. D.; Miles, S. J.; Holt, J. B.; Wilkin, A. L.; Scott, M. A. *Journal of Agricultural Engineering Research* 53(4):289-303. 1992.
23. *Greenhouse covering systems*. Giacomelli, G. A.; Roberts, W. J. *HortTechnology* 3(1):50-58. 1993.
24. *Innovative forest tree nursery seedling washer*. Bryan, H. *American Pulpwood Association, Technical Release* 93-R-30. 2 p. 1993.
- ## ***Outplanting Performance***
25. *Nursery morphology and preliminary comparison of 3 year field performance of 1+0 and 2+0 bareroot ponderosa pine seedlings*. Rose, R.; Atkinson, M.; Gleason, J.; Haase, D. *Tree Planters' Notes* 43(4):153-158. 1992.
26. *Performance of container arid bareroot loblolly pine seedlings on bottomlands in South Carolina*. Barnett, J. P.; McGilvray, J. M. *Southern Journal of Applied Forestry* 17(2):80-83. 1993.

27. **Root dip - does it work?** Alm, A.; Stanton, J. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 29-38. 1992.
28. **Root dipping of seedlings with waterabsorbent gel improves survival on surface mine sites in West Virginia.** Hicks, R. R. , Jr. Tree Planters' Notes 43(4):159-162. 1992.
29. **Tree shelters.** Gibbs, K. A. American Pulpwood Association, Technical Release 93-R-26. 2 p. 1993.
- SO. **A bibliography on competition, tree seedling characteristics and related topics.** Harvey, E. M. F. Ontario Ministry of Natural Resources, Ontario Forest Research Institute, Forest Research Information Paper 108. 115 p. 1993. Citations are divided into 5 general areas: 1) Effects of interspecific competition on forest trees; 2) Morphology of tree seedlings as it relates to outplant performance; 3) Physiology of tree seedlings as it relates to outplant performance; 4) Effects of nursery cultural treatments on outplant performance; 5) Morphology and physiology of outplanted seedlings under limiting environmental conditions. ORDER FROM: Ontario Forest Research Institute, P.O. Box 969, Sault Ste. Marie, Ontario P6A 5N5 Canada. Free.
32. **Management of root weevils in the nursery and landscape.** DeAngelis, J.; Garth, G. The Digger 37(6):21, 23, 49. 1993.
33. **Methyl bromide fumigation: alternatives and new directions.** Pokorny, J. D. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 21-28. 1992.
34. **Seedling blight and root rot in neem (*Azadirachta indica* A. Juss.).** Shukla, A. N. Indian Journal of Forestry 15(3):266-268. 1992.
35. **Seedling problems in Michigan nurseries.** Adams, G. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 11-20. 1992.
36. **Stem swelling and lesions on seedlings of black spruce and white spruce -- a possible result of chemical injury?** Mohammed, G. H.; Menes, P. Ontario Ministry of Natural Resources, Ontario Forest Research Institute, Forest Research Note 49. 4 p. 1992.
37. **Terms and concepts for yield, crop loss, and disease thresholds.** Nutter, F. W. , Jr.; Teng, P. S.; Royer, M. H. Plant Disease 77(2):211-215. 1993.

Pesticides

30. **Compost helps media mixes fight diseases: beneficial organisms contribute extra clout.** Thomas, S. H. Nursery Manager 9(5):60-62. 1993.
31. **Computer-assisted diagnosis using expert system-guided hypermedia.** Thomson, A. J.; Sutherland, J. R.; Carpenter, C. AI Applications 7(1):17-27. 1993.
38. **Cleanup clues.** Bellinger, R. American Nurseryman 177(1): 82-85. 1993. Be prepared for post-application cleanup before you begin applying pesticides.
39. **Keep adequate pesticide files -- or pay.** Greenhouse Manager 12(2):90-91. 1993.

- *40* **Measurements of year-long exposure to tree nursery workers using multiple pesticides.** Lavy, T. L.; Mattice, J. D.; Massey, J.H.; Skulman, B. W. Archives of Environmental Contamination and Toxicology 24(2):123-144. 1993.
41. **Pesticide fate research trends within a strict regulatory environment: the case of Germany.** Gassman, P. W. Journal of Soil and Water Conservation 48(3):179-187. 1993.
42. **Pesticides for tomorrow.** Fisher, S. W. American Nurseryman 177(9):77-78, 80. 1993. An entomologist predicts avenues of pesticide development in the '90s and beyond.
43. **The scoop on sprayers.** Ross, D. S. American Nurseryman 177(9):42-43, 45-47. 1993. Knowing how to choose, calibrate and maintain a portable sprayer can save you time and money.

Seedling Harvesting and Storage

- *44* **Evaluation of manual sorting in three pine nurseries.** Hassan, A. E.; Tohmaz, A. S.; Roise, J. P. Transactions of the American Society of Agricultural Engineers 35(6):1981-1986. 1992.
- *45* **Tolerance of conifer fine roots to cold storage.** McKay, H. M. Canadian Journal of Forest Research 23(3):337-342. 1993.

Seedling Physiology and Morphology

- *46* **Acclimation to drought in *Acer pseudoplatanus* L. (sycamore) seedlings.** Khalil, A. A. M.; Grace, J. Journal of Experimental Botany 43(257):1591-1602. 1992.
47. **Antidesiccant compounds improve the survival of bare-root deciduous nursery trees.** Englert, J. M.; Warren, K.; Fuchigami, L. H.; Chen, T. H. H. Journal of the American Society for Horticultural Science 118(2):228-235. 1993.
- *48* **Dehydration tolerance of five bur oak (*Quercus macrocarua*) seed sources from Texas, Nebraska, Minnesota, and New York.** Kuhns, M. R.; Stroup, W. W.; Gebre, G. M. Canadian Journal of Forest Research 23(3):387-393. 1993.
49. **The effect of photosynthetic photo flux density on development of frost hardiness in top and roots of *Larix leptolepis* seedlings.** Hansen, J.M.; Eriksen, E. N. Scandinavian Journal of Forest Research 8(2):204-212. 1993.
- *SO* **Effects of foliar nitrogen concentration on photosynthesis arid water use efficiency in Douglas-fir.** Mitchell, A. K.; Hinckley, T. M. Tree Physiology 12(4):403-410. 1993.
- *51* **Establishment of willow cuttings grown in porous membrane root envelopes.** Drew, A. P. Plant and Soil 148(2):289-293. 1993.
- *52* **Fraser fir seedling gas exchange arid growth in response to elevated CO₂.** Samuelson, L. J.; Seder, J. R. Environmental and Experimental Botany 32(4):351-356. 1992.

- *53 * ***Influence of cultural practices on the relationship between frost tolerance and water content of containerized black spruce, white spruce, and jack pine seedlings.*** Calme, S.; Margolis, H. A. Canadian Journal of Forest Research 23(3):503-511. 1993.
- *54* ***Maturation of maritime pine (Pinus pinaster Ait) seedlings after exposure to a period of continuous light.*** Lascoux, D. M.; Paino, E. N.; Sierra de Grado, R.; Kremer, A.; Dormling, I. Tree Physiology 12(4):363-378. 1993.
- *SS * ***Physiological responses of loblolly pine (Pinus taeda L.) seedlings to drought stress: osmotic adjustment and tissue elasticity.*** Meier, C. E.; Newton, R. J.; Puryear, J. D.; Sen, S. Journal of Plant Physiology 140(6):754-760. 1992.
- *56* ***Seasonal variation in the tissue water relations of Picea glauca.*** Colombo, S. J.; Teng, Y. Oecologia 92(3):410-415. 1992.
- *57* ***Shoot water relations and gas exchange of western hemlock and western red cedar seedlings during establishment on a reforestation site.*** Grossnickle, S. C. Trees: Structure and Function 7(3):148-155. 1993.
58. ***Successional status, seed size, and responses of tree seedlings to CO₂, light, and nutrients.*** Bazzaz, F. A.; Miao, S. L. Ecology 74(1):104-112. 1993.
59. ***Testing the hypothesis that mean relative growth rates eliminate size-related growth differences in tree seedlings.*** South, D. B. New Zealand Journal of Forestry Science 21(2/3):144-164. 1991.
- *60* ***Vascular cambial sucrose metabolism and growth in loblolly pine (Pinus taeda L.) in relation to transplanting stress.*** Sung, S. J. S.; Kormanik, P. P.; Black, C. C. Tree Physiology 12(3):243-258. 1993.

Seeds

61. ***Effect of cone diameter on seed yield, moisture content and germination in Himalayan cedar (Cedrus deodara Royle ex D. Don).*** Singh, V.; Sah, V. K.; Singh, A. K. Indian Journal of Forestry 15(4):335-338. 1992.
62. ***Effect of gibberellin, kinetin and spermine on dormancy breaking and germination of common ash (Fraxinus excelsior L.) seed.*** Lewandowska, U.; Szczołthka, Z. Acta Physiologiae Plantarum 14(4):171-175. 1992.
63. ***Effects of cone scorching on germinability, and vigour of lodgepole pine (Pinus contorta var. latifolia) seeds in Alberta.*** Wang, B. S. P.; Downie, B.; Wetzel, S.; Palamarek, D.; Hamilton, R. Seed Science and Technology 20(3):409-419. 1992.
64. ***Genetic control of seed size and germination in Sitka spruce.*** Chaisurisri, K.; Edwards, D. G. W. Silvae Genetica 41(6):348-355. 1992.
65. ***Pre-sowing seed treatments used at the George O. White State Forest Nursery -Missouri.*** Yoder, B. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 42-44. 1992.
66. ***Seed treatment practices at Jasper-Pulaski State Tree Nursery, Indiana Division of Forestry.*** Westefer, D. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 45-60. 1992.
67. ***Seed treatments at Toumey Nursery.*** Dinkel, G. Northeastern Area Nurserymen's Conference, proceedings, 1992, p. 61. 1992.

68. **Seed yield and quality from early cone collections of black spruce and white spruce.** Mosseler, A. *Seed Science and Technology* 20(3):473-482. 1992.
69. **Seedlings from large seeds tolerate defoliation better: a test using phylogenetically independent contrasts.** Armstrong, D. P.; Westoby, M. *Ecology* 74(4):1092-1100. 1993.
- *70* **Simulation of southern pine seed germination in a nursery.** Parmar, R S.; McLendon, B. D.; McClendon, R. W.; Dougherty, P. M. *Transactions of the American Society of Agricultural Engineers* 35(6):2021-2026. 1992.
- *75* **Decreasing the impact of surface crusting on seedling emergence by spray wetting.** Shiel, R S.; Yuniwo, E. C. *Soil Use and Management* 9(1):40-45. 1993.
76. **Effect of cover crops on soil erosion in nursery aisles.** Cropps, R W.; Bates, H. K. *Journal of Environmental Horticulture* 11(1):5-8. 1993.
- *77* **Effect of potting mix texture on farm tree seedling survival in heavy soils.** Noble, P. *Agroforestry Systems* 21(1): 75-78. 1993.
- *78* **Growth increase of birch seedlings under the influence of earthworms - a laboratory study.** Haimi, J.; Huhta, V.; Boucelham, M. *Soil Biology and Biochemistry* 24(12):1525-1528. 1992.
79. **Impact of hydrogel on physical properties of coarse- structured horticultural substrates.** Fonteno, W. C.; Bilderback, T. E. *Journal of the American Society for Horticultural Science* 118(2):217-222. 1993.
- *80* **The microbiology of pine bark composting: an electron- microscope and physiological study.** Davis, C. L.; Donkin, C. J.; Hinch, S. A.; Germishuizen, P. *Bioresource Technology* 40:195-204. 1992.
- *81* **Microtensiometer technique for in situ measurement of soil matric potential and root water extraction from a sandy soil.** Vetterlein, D.; Marschner, H.; Horn, R. *Plant and Soil* 149(2): 263-273. 1993.
71. **Adsorption, desorption, and leaching of oxadiazon in container media and soil.** Wehtje, G. R.; Gilliam, C. H.; Hajek, B. F. *HortScience* 28(2):126-128. 1993.
- *72* **Chemical and biological changes in compost of wood shavings, sawdust and peat moss.** N'Dayegamiye, A.; Isfan, D. *Canadian Journal of Soil Science* 71:475-484. 1991.
73. **A clean choice.** Bremer, A. H. *American Nurseryman* 177(11):38-41. 1993. Cover crops offer many advantages over traditional clean cultivation techniques for tree growers.
74. **Consumers evaluate a growing medium containing broiler litter compost.** Behe, B. K.; Purvis, L. V.; Beckett, L. M.; Gilliam, C. H.; Donald, J. O. *HortScience* 28(4):345. 1993.
82. **Optical properties of plastic mulches affect the field temperature regime.** Ham, J. M.; Kluitenberg, G. J.; Lamont, W. J. *Journal of the American Society for Horticultural Science* 118(2):188-193. 1993.

83. **Soil strength in the seed zone of several planting systems.** Stephens, L. E.; Johnson, R.R. Soil Science Society of America Journal 57(2):481-489. 1993. Compares 4 John Deere planting and seeding openers designed for planting in a range of seedbed conditions ranging from clean to no-till.
84. **Solarization is an effective soil disinfestation technique for strawberry production.** Hartz, T. K.; DeVay, J. E.; Elmore, C. L. HortScience 28(2):104-106. 1993.
85. **Use of hydrophilic polymers in horticulture.** Orzolek, M. D. HortTechnology 3(1):41-44. 1993.
90. **Effects of temperature on the germination of selected Australian native species used in the rehabilitation of bauxite mining disturbance in Western Australia.** Bell, D. T.; Bellairs, S. M. Seed Science and Technology 20(1):47-55. 1992.
- *91 * **The mahogany shoot borer: prospects for control.** Newton, A. C.; Baker, P.; Ramnarine, S.; Mesen, J. F.; Leakey, R. I -B. Forest Ecology and Management 57(14):301-328. 1993.
92. **Plantation establishment techniques in tropical America.** Ladrach, W. E. Tree Planters' Notes 43(4):125-132. 1992.

Tropical Forestry and Agroforestry

- *86 * **The effect of *Caryedon serratus* Olivier (Col., Bruchidae) on viability and germination of seeds of *Acacia nilotica* (L. Willd. ex Del) in the Sudan.** El Atta, H. A. Forest Ecology and Management 57(1-4):169-177. 1993.
87. **Effect of different pretreatments on the germination of *Acacia Senegal* seed.** Danthu, P.; Roussel, J.; Dia, M.; Sarr, A. Seed Science and Technology 20(1):111-117. 1992.
88. **Effect of seed pretreatment with potassium nitrate and thiourea on germination of *Albizia lebbek* (L.) Benth.** Roy, M. M. Indian Journal of Forestry 15(4):356-357. 1992.
- *89* **Effect of seed size on germination and seedling vigor of *Virola koschnyi* Warb.** Gonzalez J., E. Forest Ecology and Management 57(1-4):275-281. 1993.
93. **The rain forest in tropical America: forest dynamics, reforestation, seed handling, and problems of management.** Vazquez-Yanes, C.; Orozco-Segovia, A. Tree Planters' Notes 43(4):114-118. 1992.
94. **A review of the literature on storage of dipterocarp seeds.** Tompsett, P. B. Seed Science and Technology 20(2):251-267. 1992.
95. **Scarification of limba seeds with hot water, bleach, and acid.** Khasa, P. D. Tree Planters' Notes 43(4):150-152. 1992.
- *96* **Seed pretreatment methods to improve germination of the multipurpose West African forest species *Dialium guineense*.** Todd-Bockarie, A. H.; Duryea, M. L. Forest Ecology and Management 57(1-4):257-273. 1993.
97. **Seed technology: a challenge for tropical forestry.** Bonner, F. T. Tree Planters' Notes 43(4):142-145. 1992.

Vegetative Propagation and Tissue Culture

- *98* ***Agrobacterium rhizogenes*-mediated transformation to improve rooting ability of eucalypts.** Macrae, S.; van Staden, J. *Tree Physiology* 12(4):411-418. 1993.
99. ***Biotechnology: Pandora's box or nursery industry's panacea?*** Peerbolt, A. *The Digger* 37(6):24-25, 27-28. 1993.
- * 100* ***Comparisons of growth of Eucalyptus camaldulensis from seeds and tissue culture: root, shoot and leaf morphology of 9 month-old plants grown in deep sand and sand over clay.*** Bell, D. T.; van der Moezel, P. G.; Bennett, I. J.; McComb, J. A.; Wilkins, C. F.; Marshall, S. C. B.; Morgan, A. L. *Forest Ecology and Management* 57(14):125-139. 1993.
101. ***IBA caused reduction in rooting of shoot cuttings of Hibiscus ablemoschus.*** Pal, M.; Badola, K. C.; Bhandari, H. C. S. *Indian Journal of Forestry* 15(3):269-270. 1992.
102. ***Propagation system for the production of rooted cuttings from physiologically mature Pinus radiata within 2 years of field collection.*** Van Dorsser, J. C.; Faulds, T. *New Zealand Journal of Forestry Science* 21(2/3):135-143. 1991.

Water Management and Irrigation

103. ***Innovative irrigation techniques in nursery production to reduce water usage.*** Kabashima, J. N. *HortScience* 28(4):291-293. 1993.

104. ***Use of ground water monitoring data for pesticide registration.*** Barrett, M. R.; Williams, W. M.; Wells, D. *Weed Technology* 7(1):238-247. 1993.

Weed Control

105. ***Control of yellow and purple nutsedges (Cyperus esculentus and C. rotundus) in nursery crops.*** Derr, J. F.; Wilcut, J. W. *Weed Technology* 7(1):112-117. 1993.
106. ***Herbicide efficacy for production of container ornamentals.*** Gallitano, L. B.; Sloch, W. A. *Weed Technology* 7(1):103-111. 1993.
107. ***Herbicides for container-grown rain forest species.*** Sharman, K. V. *HortScience* 28(4):303-305. 1993.
- * 108* ***Searching for solutions to weed problems: Do we study competition or dispersion?*** Ghersa, C. M.; Roush, M. L. *BioScience* 43(2):104-109. 1993. Compares the impact on crop yields of reducing the weed capacity to disperse with increasing the relative crop capacity of compete for resources.