

Thomas R. Fox

Selected Publications

Book Chapters

1. Graham, R.L., T.R. Fox, and P.H. Dougherty. 1986. Multiple stress factors: The potential role of systems models in assessing the impact of multiple stresses on forest productivity. Chapter 8. *In Stress Physiology and Forest Productivity*. Martinus Nijhoff Pub., Dordrecht, Netherlands. 239 pp.
2. Fox, T.R. 1995. Low molecular weight organic acids in forest soils: Influence on metal solubility and nutrient availability. pp. 43-62 *In Carbon Forms and Functions in Forest Soils*. SSSA. Madison, WI.
3. Fox, T.R. 2001. Sustained productivity in intensively managed forest plantations. pp. 187-202 *In Forest Soils and Ecosystem Sustainability*. Elsevier. Amsterdam. 462 pp.
4. Fox, T.R., E. Jokela, and H.L. Allen. 2004. The evolution of pine plantations in the southern United States. Chapter 8. *In Southern Forest Science: Past, Present, Future*. USDA Forest Service. General Technical Report SRS-75. 394 pp.
5. Fox, T.R., and R. R. Hicks. 2004. Forest Productivity. Chapter 6. *In Southern Forest Science: Past, Present, Future*. USDA Forest Service. General Technical Report SRS-75. 394 pp.
6. Fox, T.R., Miller, BH, Stape, J.L., Rubilar, R.P. and Albaugh, T.J. 2010. Phosphorus Nutrition and Fertilization in Forest Plantations. In Bunemann, E., Oberson, A. and Frossard, E. (eds.) *Phosphorus in Action – Biological Processes in Soil Phosphorus Cycling*. Soil Biology Series. Springer.
7. Fox, T.R. and J. Creighton. In Press. Silvics of Oak. *In A Practical Guide to Managing Oak Forests in the Eastern United States*. University of Tennessee Press.

Papers in Refereed Journals

1. Fox, T.R., J.A. Burger, and R.E. Kreh. 1986. Effects of site preparation on nitrogen dynamics in the southern Piedmont. *Forest Ecology & Management*. 15(4):241-256.
2. Fox, T.R. 1986. Raspberry (*Rubus ideaus* L.) competition effects on balsam fir (*Abies balsamea* (L.) Mill.) seedlings in northern Maine. *Tree Planters' Notes*. 1986:20-23.
3. Fox, T.R., and N.B. Comerford. 1990. Low-molecular-weight organic acids in selected forest soils of the southeastern USA. *Soil Science Society of America Journal*. 54:1139-1144.
4. Fox, T.R., N.B. Comerford, and W.W. McFee. 1990. Kinetics of Phosphorus release from Spodosols: Effects of oxalate and formate. *Soil Science Society of America Journal*. 54:1441-1447.
5. Fox, T.R., N.B. Comerford, and W.W. McFee. 1990. Phosphorus and aluminum release from a spodic horizon mediated by organic acids. *Soil Science Society of America Journal*. 54:1763-1767.

6. Maimone, R.A., L.A. Morris, and T.R. Fox. 1991. Soil nitrogen mineralization potential in a fertilized loblolly pine plantation. *Soil Science Society of America Journal*. 55:522-527.
7. Fox, T.R., and N.B. Comerford. 1992. Rhizosphere phosphatase activity and phosphatase hydrolyzable organic phosphorus in two forested Spodosols. *Soil Biology and Biochemistry*. 24:579-583.
8. Fox, T.R., and N.B. Comerford. 1992. Influence of oxalate loading on phosphorus and aluminum solubility in Spodosols. *Soil Science Society of America Journal*. 56:290-294.
9. Lan, M., N.B. Comerford, and T.R. Fox. 1995. Effects of organic anions with different Al complexation constants on P release from Spodic horizons. *Soil Science Society of America Journal*. 59:1745-1749.
10. Fox, T.R. 2000. Sustained productivity of intensively managed forest plantations. *Forest Ecology and Management*. 138(1-3):187-202.
11. Johnsen, K., L. Samuelson, R. Teskey, S. McNulty, and T. R. Fox. 2001. Process models as tools in forestry research and management. *Forest Science*. 47:2-8.
12. Fox, T.R., and R.E. Kreh. 2003. Growth response of pitch x loblolly hybrid pine following crown touching release. *Northern Journal of Applied Forestry*. 20(4):161-166.
13. Fox, T.R. 2004. Nitrogen mineralization following nitrogen fertilization of Douglas Fir forests in western Washington. *Soil Science Society of America Journal*. 68:1720-1728.)
14. Allen, H.L., T.R. Fox and R.G. Campbell. 2005. What's ahead for intensive pine plantation silviculture? *Southern Journal of Applied Forestry*. 29:62-69.
15. Fisher, R.F., T.R. Fox, T.Terry and R. Harrison. 2005. Forest soils education and research: Trends, needs and wild ideas. *Forest Ecology and Management*. 220(1-3):1-16.
16. Kyle, K.H., L.J. Andrews, T.R. Fox, W.M. Aust, J.A. Burger and G. H. Hansen. 2005. Long-term impact of drainage, bedding, and fertilization on growth of loblolly pine (*Pinus taeda* L.) in the Coastal Plain of Virginia. *Southern Journal of Applied Forestry*. 29(4):205-214.
17. Amishev, D.Y. and T.R. Fox. 2006. The effect of weed control and fertilization on survival and growth of four pine species in the Virginia Piedmont. *Forest Ecology and Management*. 236(1):93-101.
18. Casselman, C.N., T.R. Fox, J.A. Burger, A.T. Jones, and J. M. Galbraith. 2006. Effects of silvicultural treatments on survival and growth of trees planted on reclaimed mine lands in the Appalachians. *Forest Ecology and Management*. 223(1-3):403-414.
19. Eisenbies, M.H., J.A. Burger, W.M. Aust, S.C. Patterson, and T.R. Fox. 2006. Assessing change in soil site productivity of intensively managed loblolly pine plantations. *Soil Science Society of America Journal*. 70: 130-140.

20. Albaugh, T.J., H.L. Allen, and T.R. Fox. 2006. Individual tree crown and stand development in *Pinus taeda* under different fertilization and irrigation regimes. *Forest Ecology and Management*: 234(1-3):10-23.
21. Carlson, C.A., T.R. Fox, S.R. Colbert, D.L. Kelting, H. L. Allen, and T.J. Albaugh. 2006. Growth and survival of *Pinus taeda* in response to surface and subsurface tillage in the southeastern United States. *Forest Ecology and Management*. 234(1-3):209-217.
22. Casselman, C.N.* T.R. Fox, and J.A. Burger. 2006. Thinning response of a white pine stand on a reclaimed surface mine in southwestern Virginia. *Northern Journal of Applied Forestry*. 24(1):9-14.
23. Tyree, M.C., J.R. Seiler, W.M. Aust, D.A. Sampson, and T.R. Fox. 2006. Long-term effects of site preparation and fertilization on total soil CO₂ efflux and heterotrophic respiration in a 33-year-old *Pinus taeda* L. plantation on the wet flats of the Virginia Lower Coastal Plain. *Forest Ecology and Management*. 234(1-3):363-369.
24. Albaugh, T.A., H.L. Allen, and T.R. Fox. 2007. Historical patterns of forest fertilization in the southern United States from 1969 to 2004. *Southern Journal of Applied Forestry*. 31(3):129-137.
25. Fox, T.R., H.L. Allen, T.J. Albaugh, R. Rubilar, and C.A. Carlson. 2007. Tree nutrition and forest fertilization of pine plantations in the southern United States. *Southern Journal of Applied Forestry*. 31(1): 5-11.
26. Jones, P.D., and T.R. Fox. 2007. Wood density in *Pinus taeda* x *Pinus rigida* and response 10 years after thinning in Virginia. *Forest Products Journal*. 57(12):70-73.
27. Fox, T.R., E.J. Jokela, and H.L. Allen. 2007. The development of pine plantation silviculture in the southern United States. *Journal of Forestry*. 105(5):337-347.
28. Tyree, M.C., J.R. Seiler, and T.R. Fox. 2008. The effects of fertilization on soil respiration in two-year-old *Pinus taeda* L. clones. *Forest Science*, 54(1): 21-30.
29. King, N.T., J. R. Seiler, T. R. Fox, and K. H. Johnsen. 2008. Post-fertilization loblolly pine clone physiology and growth performance. *Tree Physiology* 28:703-711.
30. Albaugh, T.A., H.L. Allen and T.R. Fox. 2008. Nutrient use and uptake in *Pinus taeda*. *Tree Physiology*. 28:1083-1098.
31. Carlson, C.A., H. E. Burkhart, T. R. Fox, and H. L. Allen. 2008. Changes to the diameter distribution of *Pinus taeda* as a result of midrotation fertilizer applications. *Canadian Journal of Forest Research*. 38:2063-2071.
32. Carlson, C.A., T.R. Fox, H. L. Allen, and T.J. Albaugh. 2008. Modeling mid-rotation fertilizer responses using the age-shift approach. *Forest Ecology and Management*.
33. Atwood, C.J., T.R. Fox, and D.L. Loftis. 2009. Effects of alternative silviculture on stump sprouting in the Southern Appalachians. *Forest Ecology and Management*. 257:1305-1313.
34. Carlson, C.A., T.R. Fox, J. Creighton, P. M. Dougherty, and J.R. Johnson. 2009. Nine year growth responses to planting density manipulation and repeated early fertilization in a loblolly pine plantation in the Virginia Piedmont. *Southern Journal of Applied Forestry*. 33(3):109-114.

35. Albaugh, T.J., H.L. Allen, T.R. Fox, C.A. Carlson, and R. Rubilar. 2009. Opportunities for fertilization of loblolly pine in the sandhills of the southeastern United States. *Southern Journal of Applied Forestry*. 33(3):129-136.
36. Carlson, C.A., T.R. Fox, H.E. Burkhart, H.L. Allen, and T. J. Albaugh. 2009. Accuracy of subsampling for height measurements in loblolly pine plots. *Southern Journal of Applied Forestry*. 33(3):145-149.
37. Sucre, E.B. and T.R. Fox. 2009. Contribution of Soil Influenced by Decomposing Stumps and Root Systems to Soil Nutrient Pools in Southern Appalachian Hardwood Forests. *Forest Ecology and Management*. 258: 2242-2248.
38. Pratt, W.A. and T.R. Fox. 2009. Streamside management zone effectiveness for protecting water quality following forestland application of biosolids. *Journal of Environmental Quality*. 38:2106-2120.
39. Albaugh, J., H.L. Allen, T.J. Albaugh, T.R. Fox, J.L. Stape, and R.P. Rubilar. 2010. Characterization of foliar macro- and micro-nutrient concentrations and ratios in loblolly pine plantations in the southeastern United States. *Southern Journal of Applied Forestry*. 34(2):53-64.
40. Albaugh, T.J., H.L. Allen, J. Stape, T.R. Fox, R.A. Rubilar, C.A. Carlson, and R. Pezutti. 2010. Leaf area duration in natural range and exotic *Pinus taeda*. *Canadian Journal of Forest Science*. 40:224-234.
41. Homyack, J.A., E.B. Sucre, C.A. Haas, and T.R. Fox. 2010. Does *Plentodon cinereus* affect leaf litter decomposition and invertebrate abundances in mixed oak forests? *Journal of Herpetology*. 44:447-456.
42. Munsell, J.F., and T.R. Fox. 2010. An analysis of the feasibility for increasing woody biomass production from pine plantations in the southern United States. *Biomass and Bioenergy*.
43. Rubilar, R.A., H.L. Allen, J.S. Alvares, T.J. Albaugh, T.R. Fox, and J.L. Stape 2010. Silvicultural manipulation and site effect on above and below ground biomass equations for young *Pinus radiata* plantations. *Biomass and Bioenergy* 34:1825-1837.
44. Vickers, L.A., T.R. Fox, D. L. Loftis, and D. A. Boucugnani. 2012. Predicting Forest Regeneration in the Central Appalachians Using the REGEN Expert System. *Journal of Sustainable Forestry*.
45. Atwood, C.J.*, T.R. Fox, and D. L. Loftis. In Press. Effects of Alternative Silvicultural Treatments on Regeneration in the Southern Appalachians. *Journal of Sustainable Forestry*.
46. Miller, B.W. and T.R. Fox. In Press. Long-term Fertilizer Effects on Oxalate Desorbable Phosphorus Pools in a Typic Paleaquult. *Soil Science Society of America Journal*.
47. Sucre, E.B. J.W. Tuttle, and T.R. Fox. In Press. The use of ground-penetrating radar as a tool to accurately estimate soil depth in rocky forest soils of the southern Appalachians. *Forest Science*.
48. Stovall, J. L., C.A. Carlson, J.R. Seiler, T.R. Fox, and M.A. Yanez. In Press. Growth and stem quality responses to fertilizer applications by 21 loblolly pine clones in the Virginia Piedmont. *Forest Ecology and Management*.

49. Zerpa, J. L. and T.R. Fox. In Press. Controls of Volatile NH₃ losses from loblolly pine plantations fertilized with urea in the Southeast US. Soil Science Society of America Journal.