

LITERATURE CITATIONS

- Aaron, J.R. Conifer bark—its properties and uses. For. Comm. Rec. 110. London: Her Majesty's Stationery Office; 1976. 31 p.
- Aldhous, J.R. Nursery practice. For. Comm. Bull. 43. London: Her Majesty's Stationery Office; 1972. (p. 28-40). 184 p.
- Alexander, M. Introduction to soil microbiology. New York: John Wiley and Sons; 1961: 149-158.
- Allison, F.E. Decomposition of wood and bark sawdusts in soil, nitrogen requirements and effects on plants. Tech. Bull. 1332. Beltsville, MD: U.S. Department of Agriculture, Agricultural Research Service; 1965. 58 p.
- Allison, F.E. Soil organic matter and its role in crop production. New York: Elsevier Scientific Publishing Company; 1973. (p.362-364, 417-459, 500-517, 585-602). 637 p.
- Archie, S. Seedling establishment and growth and tree growth and engineering aspects in sludge-treated existing forests. In: Edmonds, R.L.; Cole, D.W. eds. Use of dewatered sludge as an amendment for forest growth. Seattle: University of Washington, College of Forest Resources, Center for Ecosystem Studies; 1980: 6-18. Vol. 3.
- Armson, K.A.; Sadreika, V. Forest tree nursery soil management and related practices. Toronto: Canadian Ministry of Natural Resources; 1974 (p. 80-82). 179 p.
- Arshad, M.; Frankenberger, W.T. Ethylene accumulation in soil in response to organic amendments. Soil Sci. Soc. Am. J. 54:1026-1031; 1990.
- Bengston, G.W. Strategies for maintaining forest productivity: a researcher's perspective. In: Tippin, T., ed. Proceedings of the symposium- on principles of maintaining productivity on prepared sites. New Orleans: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station; 1978: 123-159.
- Beauchemin, S; N'dayegamiye, A.; et Laverdiere, M.R. Phytotoxicite des materiaux ligneux frais et compostes utilises comme amendements organiques des sols. Can. J. Soil Sci. 72:177-181; 1992.
- Bledsoe, C.S.; Zasoski, R.J. Growth and nutrition of forest tree seedlings grown in sludge amended media. In: Edmonds, R. L.; Cole, D.W. eds. Use of dewatered sludge as an amendment for forest growth. Seattle: University of Washington, College of Forest Resources, Center for Ecosystem Studies; 1980: 75-79. Vol. 3.
- Bollen, W.B. Mulches and soil conditioners. Agric. and Food Chem. 1(5): 379-381; 1953.
- Bollen, W. B. Properties of tree barks in relation to their agricultural utilization. Res. Pap. PNW-77, Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1969. 36p.

- Bollen, W.B.; Glennie, D.W. Fortified bark for mulching and soil conditioning. *For. Prod. J.* 13:209-215; 1963.
- Bollen, W.B.; Lu, K.C. Effect of Douglas-fir sawdust mulches and incorporations on soil microbial activities and plant growth. *Soil Sci. Soc. Am. Proc.* 21(1): 35-41; 1957.
- Bollen, W.B.; Lu, K.C. Douglas-fir bark tannin decomposition in two forest soils. Res. Pap. PNW-85. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1969. 12 p.
- Bollen, W.B.; Lu, K.C. Sour sawdust and bark: its origin, properties, and effect on plants. Res. Pap. PNW-108. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1970. 13 p.
- Brady, N.C. The nature and properties of soils. 8th ed. New York: MacMillan Publishing Company; 1974 (p. 534-550). 69 p.
- Brockway, D.C.; Schneider, G.; White, D.P. Municipal wastewater renovation, growth, and nutrient uptake in an immature conifer-hardwood plantation. In: Youngberg, C.T., ed. Forest soils and land use: Proceedings of the 5th North American forest soils conference; 1978 August; Fort Collins, CO. Fort Collins, CO: Colorado State University, Department of Forest and Wood Sciences; 1978: 565-583.
- Burge, W.P.; Marsh, P.B. Infectious disease hazards of landspreading sewage wastes. *J. Environ. Q.* 7(1): 1-9; 1978.
- Burke, D.W. Summary and evaluation. In: Young, R.A.; Snyder, W.C., eds. Nature of the influence of crop residues on fungus-induced root diseases. West. Reg. Proj. W-38. Pullman, WA: Washington Agricultural Experiment Station, Washington State University; 1969: 2-3.
- Camp, R.; Iyer, J.G. Sawdust: its use in nursery soils. Res. Note 192. Madison, WI: University of Wisconsin; 1976. 4 p.
- Chen, Y.; Gottesman, A.; Aviad, T.; Inbar, Y. The use of bottom ash coal cinder amended with compost as a container medium in horticulture. *Acta Hort.* 294:173-181; 1991.
- Davey, C.B. Sawdust composts: their preparation and effect on plant growth. *Soil Sci. Soc. Am. Proc.* 17: 59-60; 1953.
- Davey, C.B. Transformation of sawdust in the course of its decomposition under the influence of *Coprinus ephemerus*. *Soil Sci. Soc. Am. Proc.* 19: 376-377; 1955.
- Davey, C.B.; Krause, H.H. Functions and maintenance of organic matter in forest nursery soils. In: Proceedings, North American forest tree nursery soils workshop; 1980 July 28-August 1; Syracuse, NY. Syracuse, NY: State University of New York, College of Environmental Sciences and Forestry; 1980: 130-165.
- Davey, C.B. Chpt. 9, Nursery Soil Organic Matter: Management and Importance, IN: Forest Nursery Manual: Production of Bareroot Seedlings. Edited by M.L. Duryea & T.D. Landis, M. Nijhoff/Dr.

- W. Junk, Publishers The Hague/Boston/Landcaster, for Forest Research Laboratory, Oregon State University, Corvallis, OR 1984, 386 p.
- DeBell, D.S. Phytotoxins: new problems in forestry? *J. For.* 68: 335-337; 1980.
- Dindal, D.L. Soil organisms and stabilizing wastes. *Compost Sci.* 19(4): 8-11; 1978.
- Douglas, B.F.; Magdoff, F.R. An evaluation of nitrogen mineralization indices for organic residues. *J. Environ. Qual.* 20:368-372; 1991.
- Dunn, S.; Emery, J.D. Wood waste in composts. *For. Prod. J.* 9(8): 277-281; 1959.
- Dutton, D.W. Uses of organic fertilizer at Wind River Nursery. In: *Proceedings, Intermountain Nurserymen's Association Meeting; 1977 August. Intermountain Nurserymen's Association 1977: 89-110.*
- Epstein, E. The Beltsville aerated pile method for composting sewage sludge. In: Elliott, L.F.; Stevenson, F.J., eds. *Soils for management of organic wastes and waste waters.* Madison, WI: American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America; 1977: 202-213.
- Flaig, W.; Nagar, B.; Sochtig, H.; Netjen, C. Organic materials and soil productivity. *Soils Bull.* 35. Rome: Food and Agricultural Organization of the United Nations; 1977. 119 p.
- Fisher, R.F. Allelopathy: a potential cause of regeneration failure. *J. For.* 78(6): 346-350; 1980.
- Gouin, F.R.; Link, C.B.; Kundt, J.F. Forest seedlings thrive on composted sludge. *Compost Sci.* 19(4): 28-30; 1978.
- Gouin, F.R.; Walker, J.M. Deciduous tree seedlings response to nursery soil amended with composted sewer sludge. *Hort. Sci.* 12(1): 45-47; 1977.
- Haase, D.L.; Rose, R. Vector analysis and its use for interpreting plant nutrient shifts in response to silvicultural treatments. *For. Sci.* 41 (1):54-66; 1995.
- Hance, R.R. Soil organic matter and the adsorption and decomposition of the herbicides atrazine and linuron. *Soil Biol. and Biochem.* 6: 39-42; 1974.
- Hausenbuiller, R.L. *Soil science principles and practices.* Dubuque, IA: William C. Brown Company; 1978. 387 p.
- Hoitink, H.A. Composted bark: a lightweight growth medium with fungicidal properties. *Plant Dis.* 64(2): 142-147; 1980.
- Hornby, D.; Goring, C.A.J. Effects of amonium and nitrate nutrition on take-all disease of wheat in pots. *Ann. Appl. Biol.* 70: 225-231; 1972.
- Horneck, D.A.; Hart, J.M.; Topper, K.; and Koepsell, B. 1989. Methods of soil analysis used in the soil testing laboratory at Oregon State University. *SM 89:4. Agric. Exper. Sta., Oregon State University.*

- Host, J. R.; Pfenninger, R. Plant nutrients in fly ash from bark-fired boilers. Res. Note INT-247. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station; 1978. 7 p.
- Huber, D.M.; Watson, R.D. Nitrogen form and plant disease. *Down to Earth* 27(4): 14-15; 1972.
- Huber, D.M.; Watson, R.D.; Steiner, G.W. Crop residues, nitrogen, and plant disease. *Soil Sci.* 100(5): 302-308; 1965.
- Huggenberger, F.; Letey, J., Jr.; Farmer, W.J. Adsorption and mobility of pesticides in soil. *Calif. Agric.* 27(2): 8-10; 1973.
- Ishac, Y.Z.; El-Haddad, M.E.; Daft, M.J.; Ramadan, E.M.; El-Demerdash, M.E. Effect of seed inoculation, mycorrhizal infection and organic amendment on wheat growth. *Plant and Soil.* 90:373-382; 1986.
- Iyer, J.G. Sorghum-Sudan grass manure: its effect on nursery stock. Short Comm. Ms. 4082. Madison, WI: University of Wisconsin; 1979. 4 p.
- Iyer, J.G.; Wilde, S.A. Micronutrients in tree nursery soils: their behavior and importance, and an appraisal of their deficiencies. *Soil Sci.* 118(4): 267-269; 1974.
- Jordon, V.M.L.; Sneh, B.; Eddy, B.P. Influence of organic soil amendments on *Verticillium dahliae* and on the microbial composition of the strawberry rhizosphere. *Ann. Appl. Biol.* 70:139-148; 1972.
- Kirsch, R.K. Effects of sawdust mulches: I. Soil properties. Tech. Bull. 49. Corvallis, OR: Agricultural Experiment Station, Oregon State University; 1955. 16 p.
- Koreisho, E.G.; Morozov, D.N., eds. Manual of afforestation and soil melioration. Jerusalem: S. Monson, Israel Program for Scientific Translators; 1966.
- Krueger, K.W. Compounds leached from western redcedar shingle tow found toxic to Douglas-fir seedlings. Res. Note PNW-7. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1963. 6 p.
- Krzeminski, J. Managing a "clean" industrial waste. *Sludge.* 2(3): 21-28; 1979.
- Leaf, A. Northeast approach to soil and plant testing to improve seedling quality and growth. In: Proceedings, Service-wide conference on planting stock production; 1975 September 16-18; Coeur d'Alene, ID. Washington, DC: U.S. Department of Agriculture, Forest Service; 1975: 181-185.
- Linderman, R.G. Plant residue decomposition products and their effects on host roots and fungi pathogenic to roots. *Phytopathology.* 60: 19-26; 1970.
- Lu, K.C. The effect of organic amendments on soil microflora in relation to Fusarium root rot of ponderosa pine seedlings. In: Proceedings, 1968 biennial meeting of the Western Forest Nursery Council; 1968 August 13-16; Bend, OR; Sutherlin, OR. Portland, OR: Western Forestry and Conservation Association; 1968: 40-45.

- Mader, D.L. Effect of humus of different origin in moderating the toxicity of biocides. Madison, WI: University of Wisconsin; 1956. 73 p. Thesis.
- Marx, D.H. Mycorrhizae and feeder root diseases. In: Ectomycorrhizae-their ecology and physiology. New York: Academic Press; 1973: 351-382.
- Marx, D.H. Ectomycorrhizae fungus inoculations: a tool for improving forestation practices. In: Mikolu, P., ed. Tropical mycorrhizae research. Oxford England: Oxford University Press; 1980: 13-71.
- Marx, D.H.; Davey, C.B. The influence of ectotrophic mycorrhizal fungi on the resistance of pine roots to pathogenic infections: IV. Resistance of naturally occurring mycorrhizae to infections by *Phytophthora cinnamomi*. *Phytopathology*. 59: 559-565; 1969.
- Mayer, K.P.; Edmonds, R.L. Residence time of sludge associated pathogens. In: Edmonds, R. L.; Cole, D. W., eds. Use of dewatered sludge as an amendment for forest growth. Seattle: University of Washington, College of Forest Resources, Center for Ecosystem Studies; 1980: 66-69. Vol. 3.
- Maynard, A. Intensive vegetable production using composted animal manures. *Bull.* 894, Conn. Ag. Exp. Sta. 13p. 1991.
- Mays, D.A.; Terman, G.L.; Duggan, J.C. Municipal compost: Effects on crop yields and soil properties. *J. Environ. Qual.* 2:89-92; 1973.
- Miller, A.R., R.W. Rose, and K. Ray. 1984. Wrenching and top cutting effects on loblolly pine seedlings. p.11-17. In *Proceedings of the Third Biennial Southern Silvicultural Research Conference*, Atlanta, Ga.
- Mutitu, E.W.; Mukunya, D.M.; Biological control of fusarium yellows on beans caused by *Fusarium oxysporum* Schl. F. sp. *Phasioli* Kendrick and Snyder using organic amendments locally available in Kenya. *Acta Hort.* 218:267-274; 1988.
- Nelson, E. E. Effect of urea and wood shavings on populations of soil microfungi, especially *Trichoderma* species. *Microbios.* 5: 69-72; 1972.
- Olsen, S.R.; Barber, S.A. Effect of waste application on soil phosphorus and potassium. In: Elliott, L. F.; Stevenson, F. J., eds. *Soils for management of organic wastes and waste waters*. Madison, WI: American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America; 1977: 197-215.
- Papavizas, G.C.; Davey, C.B. Activity of *Rhizoctonia* in soil as affected by carbon dioxide. *Phytopathology.* 52: 759-766; 1962.
- Patrick, Z.A.; Toussoun, T.A. Plant residues and organic amendments in relation to biological control. In: Baker, K.F.; Snyder, W.C., eds. *Ecology of soil-borne plant pathogens*. Berkeley, CA: University of California Press; 1970: 44-459.
- Paustian, K.; Parton, W.J.; Persson, J. Modeling soil organic matter in organic-amended and nitrogen-fertilized long-term plots. *Soil Sci. Soc. Am. J.* 56:476-488; 1992.

- Petruzelli, G.; Guidi, G.; Lubrano, L. Organic matter as an influencing factor on copper and cadmium adsorption by soils. *Water, Air, and Soil Pollu.* 9(3): 263-269; 1978.
- Posey, H.G.; May, J.T. Some effects of sawdust mulching of pine seedlings. Leaflet 42. Auburn, AL: Alabama Polytechnic Institute, Agricultural Experiment Station: 1954. 4 p.
- Powelson, R.L. Immobilization of fungal nutrients in soil. In: Nature of the influence of crop residues on fungi-induced root diseases. Bull. 716. Pullman, WA: Washington Agricultural Experiment Station; 1969. 33 p.
- Rice, C.W.; Sierzega, P.E.; Tiedje, J.M.; Jacobs, L.W. Simulated denitrification in the microenvironment of a biodegradable organic waste injected into soil. *Soil Sci. Soc. Am. J.* 52:102-108; 1988.
- Richenderfer, J.L.; Sopper, W.E.; Kardos, L.T. Spray-irrigation of treated municipal sewage effluent and its effect on the chemical properties of forest soils. Gen. Tech. Rep. NE-17. Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northern Forest Experiment Station; 1975. 14 p.
- Roberts, A. N. Bark and sawdust mulches in maintenance planning. *Ornamentals Northwest.* 1(19): 13-17; 1978.
- Rodriguez-Kabana, R.; Morgan-Jones, G. Biological control of nematodes: Soil amendments and microbial antagonists. *Plant and Soil* 100:237-247; 1987.
- Sawhney, B.L.; Norvell, W.A. Sewage sludge for plant growth: benefits and potential hazards. Bull. 788. New Haven, CT: Connecticut Agricultural Experiment Station; 1980. 13 p.
- Schotzko, R.T.; Allison, C.; Volk, V.V.; Nelson, A.G. Projecting farm income effects of sewage sludge utilization in the Tualatin Basin of Oregon. Spec. Rep. 498. Corvallis, OR: Oregon State University, Agricultural Experiment Station; 1977. 67 p.
- Schwartz, J.W. A bibliography for small and organic farmers from 1920 to 1978. Beltsville, MD: U.S. Department of Agriculture, Agricultural Research Service; 1978. 158 p.
- Sinclair, W.A. Development of ectomycorrhizae in a Douglas-fir nursery: I. Seasonal characteristics. *For. Sci.* 20(1): 51-55; 1974a.
- Sinclair, W.A. Development of ectomycorrhizae in a Douglas-fir nursery: II. Influence of soil fumigation, fertilization, and cropping history. *For. Sci.* 20(1): 57-62; 1974b.
- Slankis, V. Factors governing formation of mycorrhizae. In: Marks, G. C.; Kozlowski, T. T., eds. *Ectomycorrhizae-their ecology and physiology.* New York: Academic Press; 1973: 231-298.
- Smiley, R.W.; Cook, R.J. Relationship between take-all of wheat and rhizosphere pH in soils fertilized with ammonium vs. nitrate-nitrogen. *Phytopathology.* 63(7): 882-890; 1973.
- Smiley, R.W.; Cook, R.J.; Papendick, R.I. Anhydrous ammonia as a soil fungicide against *Fusarium* and fungicidal activity in the ammonia retention zone. *Phytopathology.* 60(8): 1227-1232; 1970.

- Smiley, R.W.; Cook, R.J.; Papendick, R.I. Fusarium root rot of wheat and peas as influenced by soil applications of anhydrous ammonia and ammonia potassium azide solutions. *Phytopathology*. 62(1): 86-91; 1972.
- Soil Conservation Society of America. Resource conservation glossary. Ankeny, IA: Soil Conservation Society of America; 1976.
- Stack, R.W.; Sinclair, W.A. Protection of Douglas-fir seedlings against Fusarium root rot by a mycorrhizal fungus in the absence of mycorrhiza formation. *Phytopathology*. 65: 468-472; 1975.
- Stephenson, R.E. Humus for Oregon soils. Stn. Circ. 143. Corvallis, OR: Oregon State System of Higher Education; 1941. 143 p.
- Stevenson, F.J. Organic matter reactions involving herbicides in soil. *J. Environ. Q.* 1(4): 333-343; 1972a.
- Stevenson, F.J. Role and function of humus in soil with emphasis on adsorption of herbicides and chelation of micronutrients. *Bio-science*. 22(11): 643-650; 1972b.
- Thies, W.G.; Patton, R.F. The biology of *Cylindrocladium scoparium* in Wisconsin forest tree nurseries. *Phytopathology*. 60: 1662-1668; 1970.
- Tisdale, S.L.; Nelson, W.L. Soil fertility and fertilizers. 3d ed. New York: Macmillan Publishing Company; 1975 (p. 128-131, 550-579). 694 p.
- Toussoun, T.A. Phytotoxic crop residue decomposition products. In: Young, R. A.; Snyder, W. C., eds. Nature of the influence of crop residues on fungus induced root diseases. West. Reg. Proj. W-38. Pullman, WA: Washington State University, Washington Agricultural Experiment Station; 1969: 26-27.
- Trappe, J.M. Biological control of forest diseases. In: Proceedings, 1971 annual meeting of the Western Forest Pest Committee, Western Forestry and Conservation Association; 1971 November 30; Spokane, WA. Portland, OR: Western Forestry and Conservation Association; 1971. 2 p.
- Trappe, J.M. Selection of fungi for ectomycorrhizal inoculation in nurseries. *Annu. Rev. Phytopathol.* 15: 203-222; 1977.
- USDA. 1993. Methyl bromide substitutes and alternatives: A research agenda for the 1990s. January, 1993.
- Vaartzja, O.; Salisbury, P. J. Mutual effects in vitro of microorganisms isolated from tree seedlings, nursery soil, and forests. *For. Sci.* 11(2): 160-168; 1965.
- van den Driessche, R. Forest nursery handbook. Res. Note 48. Victoria, BC: British Columbia Forestry Service; 1969. 44 p.
- van Nierop, E.T.; White, D. P. Evaluation of several organic mulching materials on a sandy loam forest nursery soil. *J. For.* 56(1): 23-27; 1958.
- Verplencke, H.; Hartman, R.; DeBoodt, M. Reducing evaporation by soil conditioning and mulching. In: Emerson, W.W.; Bond, R.D.;

- Dexter, A.R., eds. Modification of soil structure. New York: John Wiley and Sons; 1978: 335-339.
- Vogt, K.A.; Edmonds, R.L.; Vogt, D.J. Regulation of nitrate levels in sludge, soil, and ground water. In: Edmonds, R. L.; Cole, D. W., eds. Use of dewatered sludge as an amendment for forest growth. Seattle: University of Washington, College of Forest Resources, Center for Ecosystem Studies; 1980: 53-65. Vol. 3.
- Wallace, A.; Wallace, G.A. Interactions between polymer soil conditioners and organic amendments in the improvement of physical properties of soil.
- Warneke, J.E.; Richards, S.J. Evaluating soil amendments for improvement of soil physical properties. Calif. Agric. 28(9): 6-8; 1974.
- Weinhold, A.R. Role of antibiosis in the mechanisms of 'action of crop residues. In: Young, R.A.; Snyder, W.C., eds. Nature of the influence of crop residues on fungus-induced root diseases. West. Reg. Proj. W-38. Pullman, WA: Washington State University, Washington Agricultural Experiment Station; 1969: 21-23.
- Wilde, S.A.; Patzer, W.E. Soil fertility standards for growing northern hardwoods in forest nurseries. J. Agric. Res. 61: 215-221; 1940.
- Zak, B. Role of mycorrhizae in root disease. Annu. Rev. Phytopathol. 2: 337-392; 1964.
- Zak, B. Detoxication of autoclaved soil by mycorrhizal fungus. Res. Note PNW-159. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1971. 4 p.
- Zasoski, R.J.; Archie, S.G.; Swain, W.C.; Stednick, J.D. Impact of sewage sludge on Douglas-fir stands near Port Gamble. Seattle: University of Washington, College of Forest Resources; 1977. 42 p.