

# Gregory K. Evanylo

**Professor**

**Specialty:**

Waste Management and Soil & Water Quality

**Contact Information:**

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**Brief biography**

Greg Evanylo received a B.A. (1974) in Biology from the University of Connecticut, an M.S. (1978) in Plant and Soil Sciences from the University of Massachusetts, and a Ph.D. (1982) in Agronomy from the University of Georgia. Greg's responsibilities at Virginia Tech include conducting extension and research programs on the effects of waste management (including composting) and utilization on crop production and health and environmental quality.

**Extension**

Effects of the land application of biosolids and other composted and uncomposted agricultural, municipal, and industrial by-products on soil and water quality and plant health and quality  
Composting agricultural, municipal, and industrial by-products

**Research**

My training in soil fertility and chemistry and my considerable extension assignment has resulted in my pursuit of an applied research program. My interests include the fate of nutrients (esp., N and P) and heavy metals in biosolids and other land applied residual by-products on soil and water quality and plant health, the effects of organic matter on soil quality and plant tolerance to environmental stress, and the effects of various waste management practices (e.g., anaerobic digestion, alkaline stabilization, composting) on properties and effects of residual by-products on soil attributes and plant health.

**Selected Publications**

Extension

Evanylo, G.K., C.A. Sherony, J.H. May, T.W. Simpson, and A.H. Christian. 2003. The Virginia Yard-Waste Management Manual. Second Edition. Virginia Coop. Ext. Publ. No. 452-055.

Evanylo, G.K. 2000. Organic nitrogen decay rates. p. 319-333. In Natural Resource, Agriculture, and Engineering Service Coop. Ext. (ed.) Managing nutrients and pathogens from animal agriculture. Proc. of a regional conference. NRAES-130. Ithaca, NY. Mar. 28-30.

Evanylo, G. and R. McGuinn. 2000. Agricultural management practices and soil quality: Measuring, assessing, and comparing laboratory and field test kit indicators of soil quality attributes. VA Coop. Ext. Publ. No. 452-400.

Evanylo, G.K. 1999. Land application of biosolids for agricultural purposes in Virginia. VA Coop. Ext. Publ. No. 452-300.

Christian, A.H., G.K. Evanylo, and J. W. Pease. 1998. Closing the loop: Public-private partnerships for on-farm composting of yard waste. Virginia Coop. Ext. Publ. No. 452-233.

Christian, A.H., G.K. Evanylo, and J.W. Pease. 1997. On-farm composting: A guide to principles, planning and operations. Virginia Coop. Ext. Publ. No. 452-232.

Nagle, S., G. Evanylo, W. L. Daniels, D. Beegle, and V. Groover. 1997. Chesapeake Bay Region Nutrient Management Training Manual. F.J. Coale (ed.) Chesapeake Bay Program, 200 p.

## Research

Gilmour, J.T., C.G. Cogger, L.W. Jacobs, G.K. Evanylo, and D.M. Sullivan. 2003. Decomposition and plant-available nitrogen in biosolids: Laboratory studies, field studies, and computer simulation. *J. Environ. Qual.* 32:1498-1507.

Evanylo, G.K. 2003. Effects of biosolids application timing and soil texture on nitrogen availability for corn. *Commun. Soil Sci. Plant Anal.* 34(1&2): 127-145.

Bulluck, L.R. III, M. Brosius, G.K. Evanylo, and J.B. Ristaino. 2002. Organic and synthetic fertilizer amendments influence soil microbial, physical and chemical properties on organic and conventional Farms. *Applied Soil Ecology* 19:147-160.

Pierson, S.T., M.L. Cabrera, G.K. Evanylo, H.A. Kuykendall, C.S. Hoveland, M.A. McCann and L.T. West. 2001. Phosphorus and ammonium concentrations in surface runoff from grasslands fertilized with broiler litter. *J. Environ. Qual.* 30:1784-1789.

Pierson, S.T., M.L. Cabrera, G.K. Evanylo, P.D. Schroeder, D.E. Radcliffe, H.A. Kuykendall, V.W. Benson, J.R. Williams, C.S. Hoveland, and M.A. McCann. 2001. Phosphorus losses from grasslands fertilized with broiler litter: EPIC simulations. *J. Environ. Qual.* 30:1790-1795.

Vaughan, J. D., and G.K. Evanylo. 1999. Soil nitrogen dynamics in winter cover crop-corn systems. *Commun. Soil Sci. and Plant Anal.* 30(1&2):31-52.

Evanylo, G.K., and W.L. Daniels. 1999. Paper mill sludge composting and compost utilization. *Compost Science and Utilization* 7(2):30-39.

Vaughan, J.D., and G.K. Evanylo. 1998. Corn response to cover crop species, spring desiccation time, and residue management. *Agron. J.* 90 (4):536-544.

Schonbeck, M.W., and G.K. Evanylo. 1998. Effects of mulches on soil properties and tomato production. I. Soil temperature, soil moisture and marketable yield. *J. of Sustainable Agric.* 13(1):55-81.

Schonbeck, M.W., and G.K. Evanylo. 1998. Effects of mulches on soil properties and tomato production. II. Plant-available nitrogen, organic matter input, and tillage-related properties. *J. of Sustainable Agric.* 13(1):83-100.

Evanylo, G.K. and M.M. Alley. 1997. The presidedress soil nitrate test for corn in Virginia. *Communications in Soil Science and Plant Analysis* 28:1285-1301.