John E. Gilley
USDA – Agricultural Research Service
Phone: (402) 472-2975; Fax: (402) 472-6338; john.gilley@ars.usda.gov

EDUCATION

Ph.D. 1982 **Colorado State University**
M.S. 1974 **University of Minnesota**
B.S. 1972 **Southern Colorado State College**

PROFESSIONAL EXPERIENCE

1982 -present **Research Agricultural Engineer, USDA – Agricultrual Research Service**

PROFESSIONAL ACTIVITIES

American Geophysical Union
American Society of Agricultural and Biological Engineers
Registered Professional Engineer
Soil and Water Conservation Society

HONORS & AWARDS

USDA Superior Service Award for Contributions to the Water Erosion Prediction Project, 1990
OECD Research Fellowship, Queensland Department of Primary Industries, Toowoomba, 1995
Journal of Soil and Water Conservation, Best Research Article Award, 1998 and 2000
Transactions of the ASABE, Honorable Mention Paper Award, 2008 and 2009
Nebraska Section of ASABE Award for Outstanding Contributions to Nebraska Agriculture, 2010
USDA-ARS Superior Performance Award, 2008, 2009, 2011, 2013, 2014

PUBLICATIONS (last 4 years)

Gilley, J.E., Vogel, J.R., Eigenberg, R.A., Marx, D.B. and Woodbury, B.L. 2011. Runoff, erosion, and size distribution of sediment from beef cattle feedlots. *Trans. of the ASABE*. 54(2): 435-440.

Vogel, J.R., Gilley, J.E., Cottrell, G.L., Woodbury, B.L., Berry, E.D., and Eigenberg, R.A. 2011. Transport of trace elements in runoff from unamended and pond-ash amended feedlot surfaces. *Trans. of the ASABE*. 54(4): 1269-1279.

Durso, L.A., Gilley, J.E., Eigenberg, R.A., Marx, D.B., and Woodbury, B.L. 2011. Effects of diet, manure application rate, and tillage on transport of micro-organisms from manure-amended fields. *Applied and Environmental Microbiology*. 77(18):6715-6717.

Gilley, J.E., Durso, L.M., Eigenberg, R.A., Marx, D.B., and Woodbury, B.L. 2011. Narrow grass hedge control of nutrient loads following variable manure applications. *Trans. of the ASABE*. 54(3):847-855.

Gilley, J.E., Vogel, J.R., Eigenberg, R.A., Marx, D.B, and Woodbury, B.L. 2012. Nutrient losses in runoff from feedlot surfaces as affected by unconsolidated surface materials. *Journal of Soil and Water Conservation*. 67(3):211-217.

Thayer, C.A., Gilley, J.E., Durso, L.M. and. Marx, D.B. 2012. Runoff nutrient loads as affected by residue cover, manure application rate, and flow rate. *Trans. of the ASABE* 55(1):249-258.

Thayer, C.A., Gilley, J.E., Durso, L.M. and. Marx, D.B. 2012. Wheat strip effects on nutrient loads following variable manure applications. *Trans. of the ASABE* 55(2):439-449.

Parker, D.B., Gilley, J.E., Woodbury, B.L., Kim, K.H., Galvin, G., Bartlett-Hunt, S.L., Li, X., and Snow, D.D. 2013. Odorous VOC emissions following land application of swine manure slurry. *Atmospheric Environment.* 66:91-100.

Gilley, J.E. and Boone, G.D. 2013. Hydraulic conditions required to not move unconsolidated surface material located within feedlots. 2013. *Trans. of the ASABE.* 56(3):911-918.

Gilley, J.E., Bartlett-Hunt, S.L., Lamb, S.J., Li, X., Marx, D.B., Snow, D.D., Parker, D.B, and Woodbury, B.L. 2013. Narrow grass hedge effects on nutrient transport following swine slurry application. *Trans. of the ASABE.* 56(4):1441-1450.

Gilley, J.E., Bartlett-Hunt, S.L., Lamb, S.J., Li, X., Marx, D.B., Snow, D.D., Parker, D.B, and Woodbury, B.L. 2013. Runoff nutrient transport as affected by land application method, swine growth stage, and runoff rate. *Trans. of the ASABE*. 56(6):1295-1303.

Joy, S.R., Bartlett-Hunt, S.L., Snow, D.D., Gilley, J.E., Woodbury, B.L., Parker, D.B., Marx, B.B. and Li, X. 2013. Fate and transport of antimicrobial and antimicrobial resistance genes in soil and runoff following land application of swine slurry. *J. of Environmental Sci. and Tech.*. 47:12081-12088.

Woodbury, B.L., Gilley, J.E., Parker, D.B., Marx, D.B., Miller, D.N. and Eigenberg, R.A. 2014. Emission of volatile organic compounds following land application of cattle manure. *J. Environmental Quality*. 43(4):1207-1218.

Gilley, J.E., Boone, G.D., and Marx, D.B. Nutrient concentrations of runoff as affected by the diameter of unconsolidated material from feedlot surfaces. 2014. *Trans. of the ASABE*. 57(3):749-759.

Joy, S.R., Li, X., Snow, D.D., Gilley, J.E., Woodbury, B.L., and Bartlett-Hunt, S.L. 2014. Fate of antimicrobials and antimicrobial resistance genes in simulated swine manure storage. *Science of the Total Environment.* 481:69-74.

Blanco-Canqui, H., Gilley, J.E., Eisenhauer, D.E., Jasa, P.J., and Boldt, A. Soil carbon accumulation under swithgrass barriers. 2014. *Agronomy Journal*. 106(6):2185-2192.

Soni, B., Bartlett-Hunt, S.L., Snow, D.D., Gilley, J.E., Woodbury, B.L, and Li, X. 2015. Narrow grass hedges reduce Tylosin and associated antimicrobial resistance genes in agricultural runoff. *Journal of Environmental Quality*. Accepted for publication.

Woodbury, B., Gilley, J.E., Parker, D.B., Marx, D.B, and Eigenberg, R.A. 2015. VOC emissions from feedlot pen surface materials as affected by within pen location, moisture, and temperature. *Biosystems Engineering*. Accepted for publication.