

Selected Turfgrass References

Gary K Felton

College of Agriculture and Natural Resources

University of Maryland

- Aelion, C.M.; Shaw, J.N., 2000. Denitrification in South Carolina (USA) coastal plain aquatic sediments. *Journal of environmental quality*. 29, no. 5, p.1696-1703.
- Angle, J. Scott, 1993. Turfgrass: the environmental sponge *Journal of environmental turfgrass* vol.5, no.1
- Bowman, D.C.; Cherney, C.T.; Rufty, T.W. Jr., 2002. Fate and transport of nitrogen applied to six warm-season turfgrasses, *Crop science* 42, no.3, p.833-841
- Bowman, D.C.; Devitt, D.A.; Engelke, M.C., et al., 1998. Root architecture affects nitrate leaching from bentgrass turf, *Crop Science* 38, no.6, p.1633-1639
- Bowman, D.C.; Paul, J.L.; Davis, W.B., 1989. Nitrate and ammonium uptake by nitrogen-deficient perennial ryegrass and Kentucky bluegrass turf, *Journal of the American Society for Horticultural Science* 114, no.3, p.421-426
- Brody, Vorhees, Melly, et al., 2002. Using GIS and historical records to reconstruct residential exposure to large-scale pesticide application, *Journal of Exposure Analysis and Environmental Epidemiology* 12, no. 1: 64-80
- Brown, K.W., J.C. Thomas, and R. L. Dubble, 1982. Nitrogen source effect on Nitrate and ammonium leaching and runoff losses from greens, *Agronomy journal* , vol 73, 947-950
- Brown, K.W., R. L. Dubble, and j. C. Thomas, 1977. Influence of management and season on fate of N applied to golf greens *Agronomy journal*, vol 69,667-671
- Bushoven, John T., Zhongchun Jiang, Heather J. Ford, Carl D. Sawyer, Richard J. Hull, and Jose A. Amador, 2000. Stabilization of soil nitrate by reseeding with perennial ryegrass following suddenturf death *Journal of Environmental Quality* 29: 1657-1661
- Cohen, S. Z.; Durborow, T.E.; Barnes, N.L., 1993. Groundwater and surface water risk assessments for proposed golf course, *ACS Symposium series* 522: p.214-227
- Cohen, Stuart A., Susan Nickerson, Robert Maxey, Aubry Dupuy Jr., and Joseph A. Senita, 1990. A ground water monitoring study for pesticides and nitrates associated with golf courses on cape cod, *GWMR* 160-173
- Cohen, S.; Svrjcek, A; Durborow, T.; Barnes, N.L.J., 1999. Water quality impacts by golf courses *Journal of environmental quality*. 28, no.3, p798-809

- Cole, J.T.; Baird, J.H.; Basta, N.T., et al., 1997. Influence of buffers on pesticide and nutrient runoff from Bermudagrass turf *Journal of environmental quality* 26, no.6, p.1589-1598
- Cooper, Richard J., 1990. Evaluating the runoff and leaching potential of turfgrass pesticides, *Golf Course Management*, 6-16
- Easton, Zachary M. and A. Martin Petrovic, 2004. TECHNICAL REPORTS - Surface Water Quality - Fertilizer Source Effect on Ground and Surface Water Quality in Drainage from Turfgrass, *J. Environ. Qual.* 33:645-655.
- Ebdon, J. S.; Gauch, H. G., Jr., 2002. Additive main effect and multiplicative interaction analysis of national turfgrass performance trials: I. Interpretation of genotype x environment interaction, *Crop Science* 42 (2), p.489-496
- Erickson, J. E.; Cisar, J. L.; Volin, J. C.; Snyder, G. H, 2005. Phosphorus and Potassium Leaching under Contrasting Residential Landscape Models Established on a Sandy Soil. *Crop Science*, Vol. 45 Issue 2, p546,
- Erickson, J. E.; Cisar, J. L.; Volin, J. C.; Snyder, G. H, 2001. Comparing nitrogen runoff and leaching between newly established St. Augustinegrass turf and an alternative residential landscape, *Crop Science*, 41 (6), p.1889-1895
- Exner, M. E., M.E. Burbach, D.G. Watts, R.C. Shearman, and R. F. Spalding, 1991. Deep nitrate movement in the unsaturated zone of a simulated urban lawn, *Journal of Environmental Quality*. 20: 658-662
- Exner, M. E., M.E. Burbach, D.G. Watts, R.C. Shearman, and R. F. Spalding, 1991. Deep nitrate movement in the unsaturated zone of a simulated urban lawn, *Journal of Environmental Quality*. 20: 658-662
- Flipse, William J., Jr. Brian G. Katz, Juli B. Lindner, and Richard Markel Sources of nitrate in ground water in a sewered housing development, central long island, New York
- Fu, B.J., X.D. Guo, L.D. Chen, K.M. Ma & J.R. Li, 2001. Soil nutrient change due to land use changes in Northern China: a case study in Zunhua County, Hebei Province *Soil Use and Management* 17, 294-296
- Geron, C. A., T. K. Danneberger, S. J. Traina, T.J. Logan, and J. R. Street, 1993. The effects of establishment and fertilization practices on nitrate leaching from turfgrass *Journal of environmental quality* 22:119-125
- Glibert, P. M.; Trice, T. M.; Michael, B.; Lane, L., 2005. Urea in the tributaries of the Chesapeake and coastal bays of Maryland, *Water, Air, and Soil Pollution* 160 (1/4), p.229-243
- Gold, A.J.; Groffman, P.M. 1993. Leaching of agrichemicals from suburban areas *ACS Symposium series* 522: p.182-190

- Gold, Arthur J., William R. DeRagon, W. Michael Sullivan, and Jerrell L. Lemunyon, 1990. Nitrate-nitrogen losses to groundwater from rural and suburban land uses, *Journal of soil and water conservation*, 305-310
- Gross, C.M., J.S. Angle, and M.S. Welterlen, 1990, Nutrient and sediment losses from turfgrass *Journal of environmental quality* 19:663-668
- Gross, C.M., J.S. Angle, R. L. Hill, and M.S. Welterlen, 1991. Runoff and sediment losses from tall fescue under simulated rainfall, *Journal of environment quality* 20: 604-607
- Guillard, K and K.L. Kopp. 2004. Nitrogen fertilizer form and associated nitrate leaching from cool-season lawn turf. *J. Environ. Qual.* 33:1822-1827.
- H.M. van Es and C. L. van Es Statistics, 1993. Spatial nature of Randomization and Its Effect on the Outcome *Agron. J.* 85, p420-428
- Harrison, S.A., T.L. Watschke, R.O. Mumma, A.R. Jarett, and G.W. Hamilton, 1993. Nutrient and pesticide concentrations in water from chemically treated turfgrass, *ACS Symposium Series 522 Chapter 17*
- Harrison, Scott A., 1992. Effects of nutrients applied to turf on runoff and leachate *HortTechnology*, 2(1) 126-127
- Harrison, Scott A., 1993. Pesticides and nutrients in turfgrass runoff *International turfgrass society research journal* 7
- Hayes, A.R.; Mancino, C.F.; Pepper, I.L., 1990. Irrigation of turfgrass with secondary sewage effluent. I. Soil and leachate water quality, *Agronomy journal* 82, no. 5 p.939-943
- Hergert, Gary W., 1986. Nitrate leaching through sandy soil as affected by sprinkler irrigation management, *Journal of Environmental Quality* Vol. 15. no. 3, 272-278
- Higby, J.R.; Bell, P.F., 1999. Low soil nitrate levels from golf course fairways related to organic matter sink for nitrogen, *Communications in soil science and plant analysis* 30, no.3/4, p.573-588
- Im, S; Brannan, KM; Mostaghimi, S., 2003. Simulating hydrologic and water quality impacts in an urbanizing watershed *Journal of the American Water Resources Association [J. Am. Water Resour. Assoc.]*. Vol. 39, no. 6, pp. 1465-1479.
- Jiang, Z.; Bushoven, J.T.; Ford, HoJ., et al., 2000. Mobility of soil nitrogen and microbial responses following the sudden death of established turf, *Journal of environmental quality* 29 no. 5, p.1625-1631
- Jun, S.; Bae, G.; Lee, K.; Chung, H., 2005. Identification of the source of nitrate contamination in ground water below an agricultural site, Jeungpyeong, Korea, *Journal of environmental quality* 34 804-815
- K. W. Brown, J.C. Thomas, And R. L. Duple, 1982. Nitrogen Source Effect on nitrate

- and Ammonium Leaching and Runoff Losses from Greens, *J. Agron.* 74:947-950
- Kaminski, J. E.; Dernoeden, P. H.; Bigelow, C. A., 2004. Soil amendments and fertilizer source effects on creeping bentgrass establishment, soil microbial activity, thatch, and disease, *HortScience* 39 (3), p.620-626
- Kelling, K. A. and A.E. Peterson, 1975. Urban Lawn Infiltration Rate and Fertilizer Runoff Losses under Simulated Rainfall, *Soil Sci Soc. Am. J* 39:348-352.
- Law, N. L.; Band, L. E.; Grove, J. M., 2004. Nitrogen input from residential lawn care practices in suburban watersheds in Baltimore County, MD *Journal of Environmental Planning and Management* 47 (5), p.737-755
- Lawson, Rex N.; Unruh, J. Bryan; Brecke, Barry, Y J., 2002. Lawn Burweed (*Soliva pterosperma*) Control in Hybrid Bermudagrass (*Cynodon dactylon* × *C. transvaalensis*) and Common Centipedegrass (*Eremochloa ophiuroides*), *Weed Technology* 16, no. 1: 84-87
- Lee, D.J.; Bowman, D.C.; Cassel, D.K., et al., 2003. Soil inorganic nitrogen under fertilized bermudagrass turf, *Crop Science* 43, no.1, p.247-257
- Linde, D.T., and T.L. Watschke, A.R. Jarrett, and J.A. Borger, 1995. Surface runoff assessment from creeping bentgrass and perennial ryegrass turf, *Agron. J.* 87:176-182
- Linde, Douglas T., Thomas L. Watschke, and Jeffery A. Borger, Transport of runoff and nutrients from fairway turfs USGA green section record
- Martin, D.L.; Bell, G.E.; Baird, J.H., and others, 2001. Spring dead spot resistance and quality of seeded bermudagrasses under different mowing heights, *Crop science.* {Madison, Wis. : Crop Science Society of America, 1961-}41, no. 2: p. 451-456.
- McIntyre, Nancy E., Mark E. Hostetler, 2001. Effect of urban land use on pollinator (Hymenoptera: Apoidea) communities in a desert metropolis, *Basic and Applied Ecolog*, 2, 3, 209-218
- Mertz, Bruce, 1997. Leaching of fertilizer nitrogen applied to turfgrass, Chesapeake Bay Agricultural Programs January
- Miltner, E.D., B.E. Branham, E.A. Paul, and P.E. Rieke., 1996. Leaching and mass balance of ¹⁵N-labeled urea applied to a Kentucky bluegrass turf., *Crop Sci.* 36:1427-1433
- Morton, T. G., A. J. Gold, and W.M. Sullivan, 1988. Influence of Overwatering and Fertilization on Nitrogen Losses from Home lawns, *Journal of environmental quality* 17: 124-130

- Nelson, K.E., A. j. Turgeon, and J.R. Street, 1980. Thatch influence on mobility and transformation of nitrogen carriers applied to turfAgronomy, Journal, Vol 72, May-June, 487-492
- Oral, N.; Acikgoz, E., 2001. Effects of nitrogen application timing on growth and quality of a turfgrass mixture, Journal of plant nutrition 24, no. 1, p.101-109
- Owen, T.R. and D.Barraclough, 1983. The leaching of nitrates from intensively fertilized grassland fertilizers and agriculture, N. 85, September
- Partsch, C. M., A.R. Jarrett, T.L. Watschke, 1993. Infiltration characteristics of residential lawns, ASAE Vol. 36(6): 1695-1701, November-December
- Petrovic, A. Martin, 1990. The fate of nitrogenous fertilizers applied to turfgrass, Journal of Environmental quality 19, Jan-Mar no.1 p.1-14
- Petrovic, A.M., N.W. hummel Jr., M. J. Carroll, 1986. Nitrogen source effects on nitrate leaching from late fall nitrogen applied to turfgrass, Agronomy Abstracts annual meeting
- Quiroga-Garxa, H.M., G.A. Picchioni, and M.D. Remmenga, 2001. Bermudagrass fertilized with slow-release nitrogen sources. I. nitrogen uptake and potential leaching losses, J. Environ. Qual. 30:440-448
- Raturi, S.; Islam, K..R.; Carroll, M.J., et al., 2004. Thatch and soil characteristics of cool- and warm-season turfgrasses, Communications in soil science and plant analysis 35, p.2161-2176
- Relf, P. Diane and David Mckissack, 1992. An evaluation of extension programs to enhance water quality through nutrient management in the urban landscape, Hort Technology Apr./ June 2(2)
- Rieke, P.E. and B.G. Elles, 1974. Effects of nitrogen fertilization on nitrate movements under turfgrass ASA 1974 p120-130
- Sills, M. J. and R. N. Carrow Turfgrass growth, N use, and water use under soil compaction and N Fertilization Agronomy Journal, Vol. 75, May June 1983, 488-492.
- Starrett, S.K., N.E. Christians, T.A. Austin. 1995. Fate of nitrogen applied to turfgrass-covered soil columns. J. Irr. And Drainage Engineering. Nov/Dec.:390-395.
- Waddington, D.V.; Gover, A.E.; Beegle, D.B., 1994. Nutrient concentrations of turfgrass and soil test levels as affected by soil media and fertilizer rate and placement, Communictaion in soil science and plant analysis 25, no. 11/12 p.421-426
- Watschke, T. L., R. E. Schmidt, Ecological aspects of turf communities, Turfgrass agronomy mono graph no.32 129-174

- Watschke, T., Harry Niemczyk, Marty Petrovic, The value of turf, for today and the future, PLCAA education and research foundation
- Watschke, Thomas L., Turfgrass can safely clean our water supplies
- Watschke, Thomas L., 1992. Strategies for controlling crabgrass , Ground Maintenance, February
- Watschke, Thomas L., 1994. A fertilizer program for home lawns Grounds Maintenance March 28-31
- Watschke, Thomas. L., Scott Harrison, and G.W. Hamilton, Does fertilizer/ pesticide use on a golf course put water resources in peril? USGA green section record
- Watts, D.G., G.W. Hergert, and J. T. Nichols, 1991. Nitrogen leaching losses from irrigated orchardgrass on sandy soils Journal of Environmental Quality 20:355-362
- Ziegler, Donald, 1993. The impact of highly maintained turfgrass on water quality, a study of research on runoff leaching, and the fate of fertilizers and pesticides applied to turfgrass8-Dec-93
- 1994 Turfgrass research field day and equipment show, July 13, 1994, Turfgrass Research and Education Facility Silver Spring, MD
- 1991 Taking it on the chin, Lawn and landscape maintenance vol. 12, no. 6, June