

Abbreviated Curriculum Vitae

Zachary J. Reicher

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Education

1988-1993 Ph.D. Agronomy - Turfgrass Science, Purdue University
1986-1988 M.S. Horticulture - Turfgrass Science, Iowa State University
1983-1986 B.S. Horticulture - Turfgrass Science, Iowa State University

Professional Experience

2005 Professor, Turfgrass Extension Specialist, Purdue University
2001-2005 Associate Professor, Turfgrass Extension Specialist, Purdue University
1997-2001 Assistant Professor, Turfgrass Extension Specialist, Purdue University
1992-1997 Administrative Professional, Turfgrass Extension Specialist, Purdue University
1988-1992 Professional Assistant, Turfgrass Research, Purdue University
1986-1988 Graduate Research Assistant, Horticulture Dept. Iowa State University

Professor, Turfgrass Extension Specialist

(60% Extension, 20% Research, 20% Teaching)

Working in the turfgrass industry since 1978, Reicher is currently leader of the Purdue Turfgrass Science Program and thus is responsible for all areas of the Program including teaching, research, and extension. As part of the Turfgrass Program, Reicher won the 2004 Agriculture Team Award from the College of Agriculture. Reicher is primarily responsible for the turfgrass Extension program and is leading the effort to improve the turfgrass industry of Indiana, including:

- Organizing and sponsoring educational meetings throughout the year including a week-long short course, three-day advanced turfgrass management seminar, field days, and a large winter conference and tradeshow with over 3500 attendees.
- Responsible for writing biweekly updates called "Turf Tips" on do-it-yourself and professional turf maintenance for the Purdue Turf Program's home page on the World Wide Web and this site receives over 65,000 hits annually.
- Other extension responsibilities include authoring extension publications, press releases, and research updates; appearing at numerous extension events; on-site troubleshooting visits to golf courses and other turf sites throughout the state; and regularly cooperating with county extension educators in training and problem solving.
- Appeared in over 400 issues of newsletters and trade magazines, revised or rewritten 40 extension publications, and spoke at over 250 state, regional, or national meetings to over 100,000 people since 1992.
- Executive Director of the Midwest Regional Turf Foundation (MRTF) and thus responsible day-to-day operations of the MRTF whose primary function is support of turfgrass research and education at Purdue University. The MRTF generates over \$300,000 annual, \$200,000 of which is directed to turfgrass research and education at Purdue.
- Other MRTF responsibilities include coordinating all events including organizing speakers, staff, and volunteers; advertising; arranging facilities; and maintaining budgets.
- As part of the Turfgrass Program, Reicher won the 2004 Agriculture Team Award from the College of Agriculture.

Turfgrass Research

Responsibilities include planning, implementing, and leading research projects devoted to managing lawn, golf, and sports turf while reducing management inputs.

- Director of the W.H. Daniel Turfgrass Research and Diagnostic Center, a 22-acre facility with over 70 on-going research projects.
- Current projects include optimizing fairway renovation techniques, understanding establishment and use of seeded zoysia and bermudagrass, and defining weed management systems for fine turf.
- Primary focus is on managing hard-to-control perennial weeds such as ground ivy, rough bluegrass, and creeping bentgrass.
- Lead or junior author on 37 refereed publications.
- Responsible for over \$1,200,000 in research grants since joining the faculty in 1997 (excluding MRTF funds).

Turfgrass Education

Active in undergraduate education including advising students and teaching both the introductory freshman turf course and the senior level capstone turfgrass science course.

- **AGRY 110: Survey of Turfgrass Culture**
Exposes students to a broad perspective of the opportunities and challenges in the turfgrass industry, allows interaction among the younger turfgrass science students, and teaches the basics of turfgrass science.
- **AGRY 512: Integrated Turfgrass Systems**
Class objective is to understand the interrelationship of all factors affecting turfgrass growth and to manipulate these factors with management systems to optimize turfgrass performance in any turf setting. Projects include problem solving, creating annual maintenance programs, and complete budgets for a professional lawn care company, sports turf facility, and golf course

Refereed Publications

1. Reicher, Z. J. and N. E. Christians. 1989. The effect of fenoxaprop and preemergence herbicides on establishment of Kentucky bluegrass sod. *HortScience* 24(5):799-801.
2. Reicher, Z. J. and N. E. Christians. 1989. Herbicide effects on Kentucky bluegrass rooting. *HortScience* 24(6):976-978.
3. Reicher, Z. J., C. S. Throssell, and J. L. Lefton. 1991. Annual grass control in cool season turf with sequential applications of unlike preemergence herbicides. *Weed Technology* 5:387-391.
4. Reicher, Z. J. and C. S. Throssell. 1993. Efficacy of fall and spring-applied preemergence herbicides for annual grass control in Kentucky bluegrass. p. 273-276. In: R. N. Carrow, N. E. Christians, R.C. Shearman (eds.). *International Turfgrass Society Research Journal* 7. Intertec Publishing Corp., Overland Park, KS.
5. Diesburg*, K. L., N. E. Christians, R. Moore, B. Branham, T.K. Danneberger, Z. J. Reicher, T. Voigt, D. D. Minner, and R. Newman. 1996. Species for low-input turf in the U.S. upper midwest. *Agronomy Journal* 89(4):690-694.
6. Reicher, Z. J. and C. S. Throssell. 1997. Effect of repeated fungicide applications on creeping bentgrass turf. *Crop Science* 37:910-915.
7. Acosta-Martínez, V., Z. Reicher, M. Bischoff, and R. F. Turco. 1999. Turfgrass soil quality: The role of tree leaf mulch and nitrogen fertilizer. *Biology and Fertility of Soils*. 29:55-61.
8. Reicher*, Z. J., D. V. Weisenberger, and C. S. Throssell. 1999. Effect of dithiopyr and quinclorac on establishment of Kentucky bluegrass and perennial ryegrass. *Weed Technology* 13:253-256.

9. Stier, J., Z. Reicher, and G. Hardebeck. 2000. Effect of the growth regulator Proxy on creeping bentgrass fairway turf. *Journal of Environmental Horticulture* 18:53-58.
10. Reicher, Z. J., D. V. Weisenberger, G. A. Hardebeck, and C. S. Throssell. 2000. Turf safety to dithiopyr on newly-seeded Kentucky bluegrass. *Weed Technology* 14:550-555.
11. Reicher, Z. J., C. S. Throssell, and D. V. Weisenberger. 2000. Date of seeding affects establishment of cool-season turfgrasses. *HortScience* 35:1166-1169.
12. Sigler, W. V., C. H. Nakatsu, Z. J. Reicher, and R.F. Turco. 2001. Fate of the biological control agent *Pseudomonas aureofaciens* after application to turfgrass. *Applied and Environmental Microbiology*. 67(8):3542-3548.
13. Reicher, Z. J., G. A. Hardebeck, F. A. Yelverton, N. E. Christians, B. Bingaman, and J. Turner. 2002. Tolerance to quinclorac by seedling creeping bentgrass. *HortScience* 37(1):210-213.
14. Reicher, Z. J., and G. A. Hardebeck. 2002. Overseeding strategies for converting golf course fairways to creeping bentgrass. *HortScience* 37(3):508-510.
15. Sigler, W. V., Z. Reicher, C. Throssell, M. Bischoff and R. F. Turco. 2003. Sorption and degradation of selected fungicides in the turfgrass canopy. *Water, Air, and Soil Pollution*. 142:311-326.
16. Kohler, E. A., C. S. Throssell and Z. J. Reicher. 2004. Cultural and chemical control of ground ivy (*Glechoma hederacea*). *HortScience* 48(3):566-574.
17. Kohler, E. A., C. S. Throssell, and Z. J. Reicher. 2004. 2,4-D rate response, absorption, and translocation of two ground ivy (*Glechoma hederacea*) populations. *Weed Technology* 18:917-923.
18. Kohler, E. A., C. S. Throssell and Z. J. Reicher. 2004. Ground ivy (*Glechoma hederacea*) populations respond differently to 2,4-D or triclopyr. *Weed Technology* 18(3):566-574.
19. Hardebeck, G. A., R. F. Turco, R. Latin, and Z. J. Reicher. 2004. Application of *Pseudomonas aureofaciens* Tx-1 through irrigation for control of dollar spot and brown patch on fairway-height turf. *HortScience* 39(7):1750-1753.
20. Patton, A.J., G. A. Hardebeck, D. W. Williams, and Z. J. Reicher. 2004. Seeding date and rate and post-seeding N and weed control for zoysiagrass and bermudagrass. *Crop Science* 44:2160-2167.
21. Patton, A.J., D. W. Williams, and Z. J. Reicher. 2004. Renovating golf course fairways to zoysiagrass established by seed. *HortScience* 39:1483-1486.
22. Branham, B. E.*, G. A. Hardebeck, J. W. Meyer and Z. J. Reicher. 2004. Turfgrass renovation using dazomet to control the *Poa annua* L. *Soil Seed Bank*. *HortScience* 39:1763-1767.
23. Kohler, E. A.*, V. L. Poole, Z. J. Reicher and R. F. Turco. 2004. Nutrient, metal, and pesticide removal during storm and non-storm events by a constructed wetland on an urban golf course. *Ecological Engineering* 23:285-298
24. Voigt, T. B.* and Z. J. Reicher. 2005. The Indiana-Illinois Turfgrass Short Course – Ten years of cooperative outreach. *International Turfgrass Research Journal* 10:1-5.
25. McCullough P., S. Hart, P. Dernoeden, S. Askew, Z. J. Reicher, and D. W. Weisenberger. 2006 Kentucky bluegrass control with postemergence herbicides. *HortScience* 41(1):255-258.
26. Patton, A. J., Z. J. Reicher, A. J. Zuk, J. D. Fry, M. D. Richardson, D. W. Williams. 2006. A guide to establishing seeded zoysiagrass in the transition zone. *Applied Turfgrass Science Applied Turfgrass Science* (on line) doi:10.1094/ATS-2006-1004-01-MG.
27. Patton, A. J. D. V. Weisenberger, G. A. Hardebeck, Z. J. Reicher. 2007. Safety of herbicides on 'Zenith' zoysiagrass seedlings. *Weed Technology* 21:145–150.

28. Patton, A. J., J. J. Volenec, and Z. J. Reicher. 2007. Stolon growth and dry matter partitioning explains differences in zoysiagrass establishment rates. *Crop Sci.* 47: 1237-1245.
29. Patton, A. J., and Z. J. Reicher. 2007. Zoysiagrass species and genotypes differ in their winter injury and freeze tolerance. *Crop Sci.* 2007 47: 1619-1627.
30. Patton, A. J., S. M. Cunningham, J. J. Volenec, Z. J. Reicher. 2007. Differences in Freeze tolerance of zoysiagrasses I: Carbohydrate and proline accumulation. *Crop Sci.* 47: 2170-2181.
31. Patton, A. J., S. M. Cunningham, J. J. Volenec, Z. J. Reicher. 2007. Differences in freeze tolerance of zoysiagrasses II: Role of proteins. *Crop Sci.* 47: 2162-2169.
32. Walker, K. S., C. A. Bigelow, D. R. Smith, G. E. Van Scoyoc, and Z. J. Reicher . 2007. Aboveground responses of cool-season lawn species to nitrogen rates and application timings. *Crop Sci.* 47: 1225-1236.
33. Reicher, Z. J., and Weisenberger, D. V. 2007. Herbicide selection and application timing in the fall affects control of ground ivy. Online. *Applied Turfgrass Science (on line)* doi:10.1094/ATS-2007-0831-01-RS. <http://www.plantmanagementnetwork.org/sub/ats/research/2007/ivy/>
34. Morton, D. E., D. V. Weisenberger, Z. J. Reicher, B. E. Branham, B. Sharp, R. Gaussoin, J. Stier and E. Koeritz. 2007. Evaluating bispyribac-sodium and sulfosulfuron for control of roughstalk bluegrass. *HortScience* 42(7): 1710-1714.
35. Patton, A.J., M.D. Richardson, D.E. Karcher, J.W. Boyd, Z.J. Reicher, J.D. Fry, J.S. McElroy, and G.C. Munshaw. 2008. A guide to establishing seeded bermudagrass in the transition zone. [Online]. *Applied. Turfgrass Science* doi:10.1094/ATS-2008-0122-01-MD.
36. Jones, M.A. Christians, N.E. Weisenberger, D. Reicher, Z.J. 2008. Selective removal of creeping bentgrass from Kentucky bluegrass with sulfosulfuron. *HortScience.* 43(3) p. 919-921.
37. Stewart, J. M., Latin, R., Reicher, Z., and Hallett, S. G. 2008. Influence of trinexapac ethyl on the efficacy of chlorothalonil and propiconazole for control of dollar spot on creeping bentgrass. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2008-0319-01-RS.