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EDUCATION

2004 *Doctor of Philosophy* in Crop Science, Breeding and Genetics, Oklahoma State University
1996 *Master of Science* in Crop Science, Breeding and Genetics, Texas Tech University
1994 *Bachelor of Science* in Agronomy, *Cum Laude*, Texas Tech University

EXPERIENCE

2016-present *Professor*, Agronomy Department, University of Florida
2010-2016 *Associate Professor*, Agronomy Department, University of Florida
2004-2010 *Assistant Professor*, Agronomy Department, University of Florida
1999-2004 *Instructor*, Tarleton State University
2001-2004 *Graduate Research Assistant*, Oklahoma State University
1998-1999 *Research Associate*, Texas A&M University
1997-1998 *Manager, Research and Development*, Thomas Brothers Grass, Ltd, Granbury, Texas
1995-1996 *Graduate Research Assistant*, Texas Tech University

PROFESSIONAL ACTIVITIES/SERVICE

- 2018 Award of Merit for the Turfgrass Producers of Florida
- 2017 NACTA Educator Award
- Alpha Zeta National Honorary Agricultural Fraternity
- Outstanding Senior in Agronomy - 1994-1995
- Soils Team - 1993-1995 - Treasurer
- Gamma Sigma Delta
- American Society of Agronomy
- Crop Science Society of America
- Florida Turfgrass Association
- Golf Course Superintendents Association of America
- Multi-state Coordinating Committee for Plant Breeding
- Turfgrass Breeders Association
- USDA Turf and Forage Crop Germplasm Committee
- National Grass Variety Review Board

GRADUATE STUDENT ADVISING

Candidate's Role	Career Total
Chair Ph.D	3
Co-Chair Ph.D	3
Chair Master's	5
Co-Chair Master's	2
Member Ph.D	17
Member Master's	12
Total	42

TEACHING

Courses Taught at the University of Florida

- AGR 3303 – Genetics
- AGR 6325 – Plant Breeding Techniques

SUMMARY OF EXTERNAL GRANT FUNDING SINCE 2010

Role	Total	Direct Costs	Indirect Costs
Principal Investigator	566,591	557,075	9,516
Co-Principal Investigator	238,600	186,977	51,623
Totals	872,191	811,052	61,139

PUBLICATIONS SINCE 2013

1. Liu W.[§], **K.E. Kenworthy**, G.E. MacDonald, J.B. Unruh, L.E. Trenholm, R.G. Leon. 2019. Application timing affects tolerance of zoysiagrass to fluzifop-p-butyl and safening effect of triclopyr. *Crop. Sci.* 59:1789-1798.
2. Liu W.[§], **K.E. Kenworthy**, G.E. MacDonald, J.B. Unruh, L.E. Trenholm, R.G. Leon. 2019. Transgressive segregation and maternal genetic effects of non-target site fluzifop-P-butyl tolerance in *Zoysia* spp. *Weed Sci.* <https://doi.org/10.1017/wsc.2019.26>
3. Liu W.[§], G.E. MacDonald, J.B. Unruh, **K.E. Kenworthy**, L.E. Trenholm, R.G. Leon. 2019. Variation in tolerance mechanisms to fluzifop-P-Butyl among selected zoysiagrass lines. *Weed Sci.* doi:10.1017/wsc.2019.6.
4. Zhang, J.^p, S. Virk, W. Porter, **K. Kenworthy**, D. Sullivan, and B. Schwartz. 2019. Applications of unmanned aerial vehicle based imagery in turfgrass field trials. *Front. Plant Sci.* doi: 10.3389/fpls.2019.00279.
5. Zhang, J.^p, B. Poudel[§], **K. Kenworthy**, J.B. Unruh, D. Rowland, J.E. Erickson and J. Kruse. 2019. Drought responses of above-ground and below-ground characteristics in warm-season turfgrass. *Journal of Agronomy and Crop Science.* 205:1-12. DOI:10.1111/jac.12301.
6. Schwartz, B. M., W. W. Hanna, L.L. Baxter, P.L. Raymer, F. Clint Waltz, A.R. Kowalewski, A. Chandra, A. D. Genovesi, B.G. Wherley, G.L. Miller, S.R. Milla-Lewis, C.C. Reynolds, Y. Wu, D.L. Martin, J.Q. Moss, M.P. Kenna, J. B. Unruh, **K.E. Kenworthy**, J. Zhang^p and P. Munoz. 2018. 'DT-1', a Drought-Tolerant Triploid Turf Bermudagrass. *HortScience*53(11):1711-1714. doi: 10.21273/HORTSCI13083-18.
7. Schwartz, B., J. Zhang^p, **K. Kenworthy**, G. Miller, C. Peacock, B. Sladek[§] and C. Christensen[§]. 2018. Nitrogen Rate and Mowing Height Affect Seasonal Performance of Zoysiagrass Cultivars. *Agronomy J.* 110: 6: 2114-2123.
8. Benda, N.D.[&] & N.C. Flor[§], P.F. Harmon and **K.E. Kenworthy**. 2017. Response of seashore paspalum genotypes to two isolates of *Sclerotinia homoeocarpa*. *International Turfgrass Society Research Journal* 13:454-458. doi:10.2134/itsrj2016.06.0474.

9. Christensen, C.[§], J. Zhang^p, **K.E. Kenworthy**, J. Erickson, J. Kruse and B.M. Schwartz. 2017. Classification of zoysiagrass genotypes on rooting capacity and associated performance during drought. *International Turfgrass Society Research Journal* 13. DOI: 10.2134/itsrj2016.05.0417
10. Flor, N.C.[§], P.F. Harmon, **K.E. Kenworthy**, L. Datnoff, R.N. Raid, and R. Nagata. 2017. Screening St. Augustinegrass genotypes for brown patch and large patch disease resistance. *Crop Sci.* 57:89-97.
11. **K.E. Kenworthy**, P.E. Reith, G.M. Prine, A.R. Blount, and K.H. Quesenberry[&]. 2017. Registration of 'FL Red' - A Later Maturing Tetraploid Annual Ryegrass. *Journal of Plant Registrations* 11:46-50. doi:10.3198/jpr2016.02.0009crc.
12. Patton, A.J., B.M. Schwartz and **K.E. Kenworthy**. 2017. Zoysiagrass (*Zoysia* spp.) history, utilization, and improvement in the United States: A review. *Crop Sci.* 57:37-72.
13. Pereira, M. [&], E.F. Rios[§], **K.E. Kenworthy**, K.H. Quesenberry[&], A. Blount, J. Erickson, F. Altpeter and P.R. Munoz. 2017. Comparisons of turf-type bahiagrass (*Paspalum notatum* Flugge) lines for root and shoot traits under various nitrogen regimes. *International Turfgrass Society Research Journal* 13. doi: 10.2135/cropsci2016.06.0468.
14. Quesenberry, K.H.[&], **K.E. Kenworthy** and D. Harrison[&]. 2017. Ploidy characterization of *Axonopus* by meiotic chromosome counts and flow cytometry. *International Turfgrass Society Research Journal* 13. doi: 10.2135/cropsci2016.10.0906.
15. Rios, E.[§], **K. Kenworthy**, A. Blount, K. Quesenberry[&], B. Unruh, J. Erickson, F. Altpeter, and P. Munoz. 2017. Breeding apomictic bahiagrass (*Paspalum notatum* Flüggé) with improved turf traits. *Plant Breeding*. doi:10.1111/pbr.12459.
16. Xing L.[§], S. Gezan, **K. Kenworthy**, J. B. Unruh, and P. Munoz. 2017. Improved genetic parameter estimations in zoysiagrass by implementing post hoc blocking. *Euphytica* 213(195): 1-10. doi: [10.1007/s10681-017-1984-3](https://doi.org/10.1007/s10681-017-1984-3).
17. Zhang, J.^p, Glenn, B.[§], Unruh, J.B., Kruse, J., **Kenworthy, K.**, Erickson, J., Rowland, D. and Trenholm, L. 2017. Comparative performance and daily light integral requirement of warm-season turfgrasses in different seasons. *Crop Science*. 57(4):2273-2282.
18. Zhang, J.[§], **Kenworthy, K.**, Unruh J. B., Erickson, J. and G. MacDonald. 2017. Changes of Leaf Membrane fatty acid composition and saturation level of warm-season turfgrass during drought stress. *Crop Science*. 57(5):2843-2851.
19. Zhang, J.[§], **K.E. Kenworthy**, J.B. Unruh, B.P. Poudel[§], J. Erickson, D.L. Rowland and J. Kruse. 2017. Physiological responses to soil drying by warm-season turfgrass species. *Crop Sci.* 57:111-118. doi:10.2135/cropsci2016.05.0316.
20. Aryal, S. K.[§], W. T. Crow, R. McSorley, R. M. Giblin-Davis, and **K. E. Kenworthy**. 2016. Integrated Pest Management of Nematodes on Bermudagrass Turf. *Crop, Forage & Turfgrass Management* 2. doi:10.2134/cftm2015.0144.
21. Fuentealba, M.P.[§], Zhang, J.^p, **Kenworthy, K.E.**, Erickson, J., Kruse, J., and L. Trenholm. 2016. Transpiration responses of warm-season turfgrass in relation to progressive soil drying. *Scientia Horticulturae* 198:249-253.

22. **Kenworthy, K.E.**, P.E. Reith[&], G.M. Prine, A.R. Blount and **K.H. Quesenberry[&]**. 2016. Registration of 'FL PE', a later-maturing diploid annual ryegrass. *Journal of Plant Registrations* 10(1):5-9.
23. **Zhang, J.[§]**, **Unruh, J.B.**, **Kenworthy, K.E.**, Erickson, J., Christensen, C., Kruse, J., and D. Rowland. 2016. Phenotypic plasticity and turf performance of zoysiagrass in response to reduced light intensities. *Crop Science* 56:1-12.
24. **Aryal[§]**, **S.K.**, **W.T. Crow**, R. McSorley, R.M. Giblin-Davis, D.L. Rowland, B. Poudel[§], and **K.E. Kenworthy**. 2015. Effects of infection by *Belonolaimus longicaudatus* on rooting dynamics among St. Augustinegrass and bermudagrass genotypes. *Journal of Nematology* 47(4):322-331.
25. **Fuentealba, M.P.[§]**, **Zhang, J.^p**, **Kenworthy, K.E.**, Erickson, J., Kruse, J., and L. Trenholm. 2015. Root development and profile characteristics of bermudagrass and zoysiagrass. *HortScience* 50 (10): 1429-1434.
26. **Glenn, B.[§]**, **B. Brecke**, J.B. Unruh, J. Ferrell, **K. Kenworthy**, and G. MacDonald. 2015. Evaluation of alternative herbicides for southern crabgrass (*Digitaria ciliaris*) control in St. Augustinegrass. *Weed Tech.* <http://dx.doi.org/10.1614/WT-D-14-00094.1>.
27. **Lu, H.**, **R. Nagata**, **K. Kenworthy**, R. Cherry, K. Quesenberry[&], and P. Busey. 2015. Registration of 'NUF-76' St. Augustinegrass. *J. of Plant Registrations*. doi:10.3198/jpr2014.10.0073crc.
28. **Quesenberry, K.H.[&]**, W.T. Crow and **K.E. Kenworthy**. 2015. Effect of *Belonolaimus longicaudatus* on root parameters of St. Augustinegrass cultivars. *Nematopica*. 45:96-101.
29. **Rios, E.[§]**, **A. Blount**, P. Harmon, C. Mackowiak, **K. Kenworthy**, and K. Quesenberry[&]. 2015. Ergot resistant tetraploid bahiagrass and fungicide effects on seed yield and quality. *Plant Health Progress*. doi:10.1094/PHP-RS-14-0051.
30. **Rios, E.F.[§]**, **K.E. Kenworthy**, and **P.R. Munoz**. 2015. Association of phenotypic traits with ploidy and genome size in annual ryegrass. *Crop Sci.* doi:10.2135/cropsci2015.01.0039.
31. **Zhang, J.^p**, **J.B. Unruh**, and **K. Kenworthy**. 2015. Turf performance of bahiagrass, centipedegrass, and St. Augustinegrass cultivars under a linear gradient irrigation system. *HortScience* 50(3):491-495.
32. **Chandra, A.**, A.D. Genovesi, B.G. Wherley, S.P. Metz, J.A. Reinert, Y-Z. Wu, P. Skulkaew, M.C. Engelke, D. Hargey, L.R. Nelson, B.M. Schwartz, P.L. Raymer, Y.Q. Wu, D.L. Martin, S.R. Milla-Lewis, G. Miller, **K.E. Kenworthy**, and P. Munoz. 2014. Registration of 'DALSA 0605' St. Augustinegrass. *J. of Plant Registrations* 9(1):27-34.
33. **Harris-Shultz, K.R.**, S. Milla-Lewis, A.J. Patton, **K. Kenworthy**, A. Chandra, F.C. Waltz, G.L. Hodnett, and D.M. Stelly. 2014. Detection of DNA and ploidy variation within vegetatively propagated zoysiagrass cultivars. *J. Amer. Soc. Hort. Sci.* 139:547-552.
34. **Huang, T.[§]**, O. Kostromytska, **K.E. Kenworthy**, **E.A. Buss**. 2014. Zoysiagrass genotype responses to *Sphenophorus venatus vestitus* (Coleoptera: Curculionidae) *J. Econ. Entomol.* 107(4):1535-1542.
35. **Ma, L.[§]**, **K.E. Kenworthy**, **H. Lu**, R. Cherry. 2014. Genetic variability of reproductive traits in common carpetgrass. *HortScience* 49(7):856-858.

36. Quesenberry, K.[&] P. Munoz, A. Blount, **K. Kenworthy**, W. Crow. 2014. Breeding forages in Florida for resistance to nematodes. *Crop and Pasture Science* 65:1192–1198.
37. Leon, R.G., J.B. Unruh, B.J. Brecke, and **K.E. Kenworthy**. 2014. *Characterization* of Fluazifop-P-butyl tolerance in zoysiagrass cultivars. *Weed Technology* 28(2):385-394.
38. Flor, N.C.[&] P. Munoz, P. Harmon, **K. Kenworthy**. 2013. Response of seashore paspalum genotypes to dollar spot disease. *International Turfgrass Society Research Journal* 12:119-126.
39. Kimball, J.A.[&] M.C Zuleta, **K.E. Kenworthy**, V.G. Lehman, K.R. Harris-Shultz, S. Milla-Lewis. 2013. Genetic relationships in *Zoysia* species and the identification of putative interspecific hybrids using simple sequence repeat markers and inflorescence traits. *Crop Sci.* January. 53(1):285-295.
40. Kimball, J.A.[&] M.C. Zuleta, **K.E. Kenworthy**, H. Lu, S.R. Milla-Lewis. 2013. Molecular markers enable the identification of contaminants in production fields of 'Captiva' St. Augustinegrass. *International Turfgrass Society Research Journal* 12:267-273.
41. Ma, L.[&] H. Lu, R. Cherry, H. McAuslane and **K. Kenworthy**. 2013. Effect of time and testing method in determining St. Augustinegrass resistance to southern chinch bugs (Hemiptera: Blissidae). *J. Entomol. Sci.* 48(2):161-165.
42. Milla-Lewis, S.R., M.C. Zuleta, G.A. Van Esbroeck, K.H. Quesenberry[&], **K.E. Kenworthy**. 2013. Cytological and molecular characterization of genetic diversity in *Stenotaphrum*. *Crop Sci.* January. 53(1):296-308.
43. Mulkey, S.E.[&] M.C. Zuleta, G.A. Van Esbroeck, H. Lu, **K.E. Kenworthy**, S.R. Milla-Lewis. 2013. Genetic analysis of a St. Augustinegrass germplasm collection using AFLP markers. *International Turfgrass Society Research Journal* 12:281-291.
44. Quesenberry, K.H.[&], **K.E. Kenworthy**, W.T. Crow, P.F. Harmon, H. Lu, S. Milla-Lewis. 2013. Lance nematode effects on rooting of two St. Augustinegrass cultivars. *International Turfgrass Society Research Journal* 12:357-361.
45. Poudel B.[&] D. Rowland, J. Erickson, J.B. Unruh, **K. Kenworthy**. 2013. Nitrogen partitioning comparisons among warm-season turfgrass species. *International Turfgrass Society Research Journal* 12:503-507.
46. Rios, E.[&] A. Blount, J. Erickson, K. Quesenberry[&], F. Altpeter, C. Cellon, **K. Kenworthy**. 2013. Root and shoot characterization of mutant turf-type bahiagrasses. *International Turfgrass Society Research Journal* 12:509-516.
47. Rios, E.F.[&] A. Blount, **K.E. Kenworthy**, A.A. Carlos, and K.H. Quesenberry[&]. 2013. Seasonal expression of apospory in bahiagrass. *Tropical Grasslands* 1:116-118.
48. Zhang, J.[&] J.B. Unruh, **K.E. Kenworthy**. 2013. Zoysiagrass cultivar responses under a linear gradient irrigation system. *International Turfgrass Society Research Journal*.12:179-185.