

Robert A. Gilbert

Dean for Research and Director, Florida Agricultural Experiment Station
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Education:

1996 – Ph.D., Soil Science; Texas A&M University
1992 – M.S., Agronomy; University of Florida
1985 – B.A., Biology; Carleton College

Professional Experience:

Dean For Research and Director, Florida Agricultural Experiment Station, University of Florida, 2019-present
Professor and Chair, Agronomy Department, University of Florida, 2014-2018
Professor and Center Director, Everglades Research and Education Center, University of Florida, 2011-2013
Associate Professor of Agronomy & Associate Center Director, Everglades Research and Education Center, University of Florida, 2009-2010
Visiting Professor of Agronomy, EARTH University, Costa Rica, 2007-2008
Assistant Professor of Agronomy, University of Florida, Everglades Research and Education Center, 2000-2006
Postdoctoral Research Fellow, The Rockefeller Foundation, Malawi, 1996-2000

Administrative Responsibilities and Accomplishments:

Dean for Research:

- Provide administrative support to 558 faculty with research appointments in UF/IFAS.
- Administer seed funding programs to assist early career faculty, leverage resources for equipment funding, send junior faculty to meet with federal agencies, and provide grantsmanship workshops.
- Responsible for the Plant Science Research and Education Unit, a plant sciences research facility with > 90 faculty projects.
- Oversee the Ordway Swisher Biological Station, a 9500-acre facility with 70 active research projects on the unique FL longleaf pine ecosystem.
- Review all UF/IFAS research faculty packets for 3-year tenure progress assessment and tenure and promotion.
- Oversee the new IFAS International Support Team.
- Provide pre-award support and administrative oversight to the record \$166 million UF/IFAS grant portfolio.
- Review research accomplishments of the 15 UF/IFAS departments and 12 research and education centers, and provide input to annual review of department chairs and center directors.
- Organize annual UF/IFAS research award ceremony.

Agronomy Department Chair:

- Supervise 33 faculty: 19 in Gainesville and 14 in 6 Research and Education Centers throughout Florida.
- Major program areas in the department include weed science and invasive plants, molecular genetics and plant breeding, and crop physiology and management.
- 10 faculty promoted from 2014-2017, successfully nominated 5 faculty for University Term Professorship awards.
- 7 new faculty hires from 2014-2017 in our biostatistics, invasive plants, forage and agroecology programs.
- Graduate enrollment in Agronomy and Agroecology programs increased from 44 to 72 students over the last 4 years.
- UF-STAIR program initiated that includes the Center for Stress Resilient Agriculture and the A2i (Accelerate to Industry) Program. International collaborative agreements signed with 9 institutions.
- Industrial hemp pilot program established in 2018. Total of \$1.3M received to date to support 6 faculty at 4 locations. Stakeholder workshops held with 300 attendees.
- Agronomy Department has consistently ranked from 1st to 3rd among 27 UF/IFAS units in refereed journal articles, grant support per research FTE, and PhD graduation rates.
- Liaised with UF/IFAS research dean's office in 2014 to coordinate \$900K in greenhouse renovations across Agronomy, Plant Pathology, Environmental Horticulture and Horticultural Sciences Departments.
- Served on the UF goal setting task force that identified UF goals, objectives and metrics across the entire university for the first 10 years of President Fuchs' tenure.
- Served as Chair of Department Chairs in 2017/18. Led efforts to increase department chair involvement in policy changes regarding tenure and promotion and 9-month contracts. Organized unit leader retreat in Cedar Key, FL.

Everglades Research and Education Center Director:

- Primary responsibility for \$4.1 million operating budget at EREC: facilities and farm operations on 800 acres, and mentoring and evaluation of 13 faculty and 30 staff.
- Liaising and fundraising with the sugarcane, turf, vegetable and sweet corn commodity groups in the Everglades Agricultural Area.
- 4 faculty promoted, 2 new faculty hires.
- Gift and grant support increased 300% to support sugarcane breeding program and irrigation and drainage infrastructure.

Refereed Journal Publications: (Career total 89)

(Senior authors underlined; *Postdoctoral fellow supervised by R.A. Gilbert;
**Graduate student supervised by R.A. Gilbert)

1. Davis, J.M., P.S. Soltis, D.C. Adams, S.L. Larkin and R.A. Gilbert. 2020. Seed funds leverage external awards for research in natural resources and agricultural systems. *Forests* 11:76
2. Sandhu, H.S., M.P. Singh, R.A. Gilbert, F. Subiros-Ruiz, R.W. Rice and J.M. Shine, Jr. 2017. Harvest management effects on sugarcane growth, yield and nutrient cycling in Florida and Costa Rica. *Field Crops Res.* 214:253-260.
3. Jennewein, S.P., R.A. Gilbert, D.L. Rowland, A. Wright, B. Glaz and J.M. Bennett. 2017. Four biofuel species' responses to periodic flooding and high water tables on a Florida Histosol. *Bioenergy Research.* 10:688-699.
4. Davidson, R.W., H.S. Sandhu, P. McCord, J.C. Comstock, S.J. Edme, D. Zhao, B. Glaz, S. Sood, N.C. Glynn, R. A. Gilbert, M.P. Singh, M. Baltazar and K. McCorkle. 2017. Registration of 'CP06-2042' sugarcane. *J. Plant Reg.* 11:121-128.
5. Van Antwerpen, R., R. Ng Cheong, N. Miles and R. Gilbert. 2016. Strategies for cane production in marginal environments and under more environmental scrutiny. *Proc. Int. Soc. Sugar Cane Technol.* 29:539-550.
6. Gordon, V.S., J.C. Comstock, H.S. Sandhu, R.A. Gilbert, S.G. Sood, P. Korndorfer, N. El-Hout and R. Arundale. 2016. Registration of 'UFCP 87-0053' sugarcane for use as a biofuel feedstock. *J. Plant Reg.* 10:258-264.
7. Sandhu, H., P. McCord, J. Comstock, S. Edme, D. Zhao, M. Singh, W. Davidson, S. Sood, N. Glynn, R. Gilbert, V. Gordon, M. Baltazar and K. McCorkle. 2016. Registration of 'CP07-2137' sugarcane. *J. Plant Reg.* 10:265-270.
8. Sandhu, H.S., R.A. Gilbert, J.C. Comstock, V.S. Gordon, P. Korndorfer, R.A. Arundale, N. El-Hout. 2016. Registration of 'UFCP 82-1655' sugarcane cultivar. *J. Plant Reg.* 10:22-27.
9. Edme, S.J., R.W. Davidson, D. Zhao, J.C. Comstock, H.S. Sandhu, B. Glaz, S. Milligan, C-J. Hu, S. Sood, K. McCorkle, R.A. Gilbert and N.C. Glynn. 2016. Registration of 'CPCL 05-1201' sugarcane. *J. Plant Reg.* 10:14-21.
10. Singh, M.P., J.E. Erickson, L.E. Sollenberger, K.R. Woodard, J. M.B. Vendramini and R. A. Gilbert. 2015. Mineral composition and removal of six perennial grasses grown for bioenergy. *Agron. J.* 107:466-474.
11. Sandhu, H.S., R.A. Gilbert, J.C. Comstock, V.S. Gordon, P. Korndorfer, N. El-Hout and R.A. Arundale. 2015. Registration of 'UFCP 74-1010' sugarcane. *J. Plant Reg.* 9:179-184.

12. Sandhu, H.S., J.C. Comstock, R.A. Gilbert, V.S. Gordon, P. Korndorfer, N. El-Hout and R.A. Arundale. 2015. Registration of 'UFCP 78-1013' sugarcane cultivar. J. Plant Reg. 9:318-324.
13. Leon, R.G., R.A. Gilbert and J.C. Comstock. 2015. Energycane (*Saccharum* spp. x *Saccharum spontaneum* L.) biomass production, reproduction, and weed risk assessment scoring in the humid tropics and subtropics. Agron. J. 107:323-329.
14. Zhao, D., J.C. Comstock, H.S. Sandhu, B. Glaz, S.J. Edme, R.W. Davidson, S. Sood, R.A. Gilbert, K. McCorkle and N.C. Glynn. 2015. Registration of 'CP 06-2400' sugarcane. J. Plant Reg. 9:71-77.
15. Nayak, S.N., J. Song, A. Villa, B. Pathak, T. Ayala-Silva, X. Yang, J. Todd, N.C. Glynn, D. N. Kuhn, B. Glaz, R.A. Gilbert, J.C. Comstock and J. Wang. 2014. Promoting utilization of *Saccharum* spp. Genetic resources through genetic diversity analysis and core collection construction. PLOS One 9:1-12.
16. Sandhu, H.S., B. Glaz, S.J. Edme, R. W. Davidson, D. Zhao, J.C. Comstock, R.A. Gilbert, S.B. Milligan, C.-J. Hu, N.C. Glynn, S. Sood and K. McCorkle. 2014. Registration of CPCL 02-6848 sugarcane. J. Plant Reg. 8:155-161.
17. Fedenko, J., J. E. Erickson, K.R. Woodard, L.E. Sollenberger, J.M.B. Vendramini, R.A. Gilbert, Z.R. Helsel and G.F. Peter. 2013. Biomass production and composition of perennial grasses grown for bioenergy in a subtropical climate across Florida, USA. Bioenerg. Res. 6:1082-1093.
18. Davidson, R.W., D. Zhao, J.C. Comstock, H.S. Sandhu, B. Glaz, S.J. Edme, S. Sood, R.A. Gilbert, S. Sood, N.C. Glynn, S.B. Milligan and C.-J. Hu. 2013. Registration of CPCL 05-1791 sugarcane. J. Plant Reg. 7:312-320.
19. Zhao, D., J.C. Comstock, B. Glaz, S. J. Edme, R.W. Davidson, R.A. Gilbert, N.C. Glynn, S. Sood, H.S. Sandhu, K. McCorkle, J.D. Miller and P.Y.P. Tai. 2013. Registration of CP 05-1526 sugarcane. J. Plant Reg. 7:305-311.
20. Glaz, B., S.J. Edme, R.W. Davidson, D. Zhao, J.C. Comstock, H.S. Sandhu, N.C. Glynn, R.A. Gilbert, S. Sood, K. McCorkle, S.B. Milligan and C.-J. Hu. 2013. Registration of CPCL 05-1102 sugarcane. J. Plant Reg. 7:296-304.
21. Comstock, J.C., B. Glaz, S.J. Edme, R.W. Davidson, R.A. Gilbert, N.C. Glynn, D. Zhao, S. Sood, J.D. Miller and P.Y.P. Tai. 2013. Registration of CP 04-1566 sugarcane. J. Plant Reg. 7:273-279.
22. R.A. Gilbert and H.S. Sandhu. 2013. Challenges of shifting revenue sources: a case study of U.S. land grant universities. Proc. Int. Soc. Sugar Cane Technol. 28:1-9.

23. *Sandhu, H.S., R.A. Gilbert, G. Kingston, J.F. Subiros, K. Morgan, R. W. Rice, L. Baucum, J.M. Shine, Jr. and L. Davis. 2013. Effects of sugarcane harvest method on microclimate in Florida and Costa Rica. *Agric. For. Meteorol.* 177:101-109.
24. *Sandhu, H.S., R.A. Gilbert, G. Kingston, J.F. Subiros, K. Morgan, R. W. Rice, L. Baucum, J.M. Shine, Jr. and L. Davis. 2013. Effect of sugarcane harvest residue on nutrient recycling and cane yield. *Proc. Int. Soc. Sugar Cane Technol.* 28:1-3.
25. Edme, S.J., R.W. Davidson, R.A. Gilbert, N.C. Glynn, D. Zhao, J.C. Comstock, B. Glaz, S. Sood, J.D. Miller and P.Y.P. Tai. 2013. Registration of CP 04-1935 sugarcane. *J. Plant Reg.* 7:288-295.
26. Gilbert, R.A., N.C. Glynn, S.B. Milligan, D. Zhao, J.C. Comstock, B. Glaz, S.J. Edme, R.W. Davidson, S. Sood and C-J. Hu. 2013. Registration of CPCL 02-1295 sugarcane. *J. Plant Reg.* 7:172-179.
27. Glynn, N.C., D. Zhao, J.C. Comstock, S.B. Milligan, B. Glaz, S.J. Edme, R.W. Davidson, R.A. Gilbert, C-J Hu, S. Sood and A. D'Hont. 2013. Registration of CPCL 02-0926 sugarcane. *J. Plant Reg.* 7:164-171.
28. Odero, D.C. and R.A. Gilbert. 2012. Dose-response of newly established elephantgrass (*Pennisetum purpureum*) to postemergence herbicides. *Weed Tech.* 26:691-698.
29. Davidson, R.W., S.B. Milligan, R.A. Gilbert, N.C. Glynn, D. Zhao, J.C. Comstock, B. Glaz, S.J. Edme, C.J. Hu, D.G. Holder and S. Sood. 2012. Registration of CPCL 95-2287 sugarcane. *J. Plant Reg.* 7:42-50.
30. *Sandhu, H.S., R.A. Gilbert, J.M. McCray, R. Perdomo, B. Eiland, G. Powell and G. Montes. 2012. Relationships among leaf area index, visual growth ratings and sugarcane yield. *J. Amer. Soc. Sugar Cane Technol.* 32:1-14.
31. Zhao, D., J.C. Comstock, B. Glaz, S.J. Edme, N.C. Glynn, I.A. del Blanco, R.A. Gilbert, R. W. Davidson and C.Y. Chen. 2012. Vigor rating and brix for first clonal selection stage of the Canal Point sugarcane cultivar development program. *J. Crop Improvement.* 26:60-75.
32. Odero, D.C. and R. A. Gilbert. 2012. Response of Giant Reed (*Arundo donax*) to Asulam and trifloxysulfuron. *Weed Tech.* 26:71-76.
33. Erickson, J.E., Z.R. Helsel, K.R. Woodard, J.M.B. Vendramini, Y. Wang, L.E. Sollenberger and R.A. Gilbert. 2011. Planting date affects biomass and brix of sweet sorghum grown for biofuel across Florida. *Agron. J.* 103:1827-1833.

34. Gilbert, R.A., J.C. Comstock, B. Glaz, I.A. del Blanco, S.J. Edme, R.W. Davidson, N.C. Glynn, S. Sood, D. Zhao, J.D. Miller and P.Y.P. Tai. 2011. Registration of CP 03-1912 sugarcane. *J. Plant Reg.* 5:318-324.
35. Glynn, N.C., S.B. Milligan, R.A. Gilbert, R.W. Davidson, J.C. Comstock, B. Glaz, S.J. Edme, C.J. Hu, D.G. Holder, I.A. del Blanco, S. Sood and D. Zhao. 2011. Registration of CPCL 00-4111 sugarcane. *J. Plant Reg.* 5:325-331.
36. Sandhu, H.S., G.S. Nuessly, R.A. Gilbert, R.H. Cherry and S.E. Webb. 2011. Effects of harvest residue and tillage levels on lesser cornstalk borer (Lepidoptera: Pyralidae) damage to sugarcane. *J. Econ. Entomol.* 104:155-163.
37. Sandhu, H.S., G.S. Nuessly, R.H. Cherry, S.E. Webb and R.A. Gilbert. 2011. Effects of *Elasmopalpus lignosellus* (Lepidoptera: Pyralidea) damage on sugarcane yield. *J. Econ. Entomol.* 104:474-483.
38. Davidson, R.W., S.B. Milligan, B. Glaz, J.C. Comstock, C-J. Hu, N.C. Glynn, S.J. Edme, D.G. Holder, R.A. Gilbert, S. Sood, I.A. del Blanco and D. Zhao. 2011. Registration of CPCL 99-4455 sugarcane. *J. Plant Reg.* 5:54-61.
39. Snapp, S.S., M.J. Blackie, R.A. Gilbert, R. Bezner-Kerr and G.Y. Kanyama-Phiri. 2010. Biodiversity can support a greener revolution in Africa. *Proc. Natl. Acad. Sci. USA* 107:20840-20845.
40. Sandhu, H.S., G.S. Nuessly, S.E. Webb, R.H. Cherry and R.A. Gilbert. 2010. Life table studies of *Elasmopalpus lignosellus* (Lepidoptera: Pyralidae) on sugarcane. *Environ. Entomol.* 39:2025-2032.
41. Glynn, N.C., R.A. Gilbert, J.C. Comstock and M.J. Davis. 2010. Transfer of a sugarcane yellow leaf virus resistance transgene to sexual progeny and screening by kanamycin inoculation. *Field Crops Res.* 119:308-313.
42. Nuessly, G.S., M.G. Hentz and R.A. Gilbert. 2010. Susceptibility of early stage IV Canal Point (CP) sugarcane clones to yellow sugarcane aphid feeding damage. *J. Amer. Soc. Sugar Cane Technol.* 30:104-114.
43. Morgan, K.T., R.A. Gilbert, Z.R. Helsel, L. Baucum, R. Leon, and J. Perret. 2010. White Paper Report from Working Groups Attending the International Conference on Research and Educational Opportunities in Bio-Fuel Crop Production. *Biomass and Bioenergy.* 34:1968-1972.
44. Gilbert, R.A., G. Kingston, K. Morgan, R.W. Rice, L. Baucum, J.M. Shine, and J.F. Subiros. 2010. Effect of harvest method on microclimate and sugarcane yield in Florida and Costa Rica. *Proc. Int. Soc. Sugar Cane Technol.* 27:1-10.
45. Sandhu, H.S., G.S. Nuessly, S.E. Webb, R.H. Cherry and R.A. Gilbert. 2010. Temperature-dependent development of lesser cornstalk borer, *Elasmopalpus*

- lignosellus* (Lepidoptera:Pyralidae) on sugarcane under laboratory conditions. Environ. Entomol. 39:1012-1020.
46. Comstock, J.C., B. Glaz, S.J. Edme, R.W. Davidson, R.A. Gilbert, N.C. Glynn, J.D. Miller, and P.Y.P. Tai. 2009. Registration of CP 00-1446 sugarcane. J. Plant Reg. 3:28-34.
 47. Edme, S.J., R.W. Davidson, R.A. Gilbert, J.C. Comstock, N.C. Glynn, B. Glaz, I.A. del Blanco, J.D. Miller and P.Y.P. Tai. 2009. Registration of CP 01-1372 sugarcane. J. Plant Reg. 3:150-157.
 48. Gilbert, R.A., N.C. Glynn, J.C. Comstock, and M.J. Davis. 2009. Agronomic performance and genetic characterization of sugarcane transformed for resistance to sugarcane yellow leaf virus. Field Crops Res. 111:39-46.
 49. Glaz, B., S.J. Edme, R.W. Davidson, R.A. Gilbert, J.C. Comstock, N.C. Glynn, J.D. Miller, and P.Y.P. Tai. 2009. Registration of CP 00-2180 sugarcane. J. Plant Reg. 3:35-41.
 50. Glynn, N.C., R.A. Gilbert, B. Glaz, J.C. Comstock, M.S. Kang, C.W. Deren, P.Y.P. Tai, and J.D. Miller. 2009. Repeatability between two intermediate sugarcane genotype selection stages in Florida. J. Crop Improv. 23:252-265.
 51. Milligan, S.B., R.W. Davidson, S.J. Edme, J.C. Comstock, C.J. Hu, D.G. Holder, B. Glaz, N.C. Glynn and R.A. Gilbert. 2009. Registration of CPCL 97-2730 sugarcane. J. Plant Reg. 3:158-164.
 52. Morgan, K.T., J.M. McCray, R.W. Rice, and R.A. Gilbert. 2008. Review of current sugarcane fertilizer recommendations: A white paper from the UF/IFAS Sugarcane Fertilization Standards Task Force. Proc. Soil Crop Sci. Soc. Fla. 67:29-36.
 53. Gilbert, R.A., J.C. Comstock, B. Glaz, S.J. Edme, R. W. Davidson, N. C. Glynn, J.D. Miller, and P.Y.P. Tai. 2008. Registration of CP 00-1101 sugarcane. J. Plant Reg. 2:95-101.
 54. Gilbert, R.A., D.R. Morris, C.R. Rainbolt, J.M. McCray, R.E. Perdomo, B. Eiland, G. Powell and G. Montes. 2008. Sugarcane response to mill mud, fertilizer, and soybean nutrient sources on a sandy soil. Agron. J. 100:845-854.
 55. Gilbert, R.A., C.R. Rainbolt, D.R. Morris, and J.M. McCray. 2008. Sugarcane growth and yield responses to a three-month summer flood. Agric. Water Manage. 95:283-291.
 56. Reicosky, D.C., R.W. Gesch, S.W. Wagner, R.A. Gilbert, C.D. Wentz, and D.R. Morris. 2008. Tillage and wind effects on soil CO₂ concentration in muck soils. Soil Till. Res. 99:221-231.

57. Gesch, R.W., D.C. Reicosky, R.A. Gilbert and D.R. Morris. 2007. Influence of tillage and plant residue management on respiration of a Florida Everglades Histosol. *Soil Till. Res.* 92:156-166.
58. Gilbert, R.A., J.D. Miller, J.C. Comstock, B. Glaz and S.J. Edme. 2007. Performance of exogenous germplasm on mineral soils of Florida, USA. *Proc. Int. Soc. Sugar Cane Technol.* 26:388-393.
59. Gilbert, R.A., C.R. Rainbolt, D.R. Morris, and A.C. Bennett. 2007. Morphological responses of sugarcane to long-term flooding. *Agron. J.* 99: 1622-1628.
60. Henshaw, T.L.***, R.A. Gilbert, J.M.S. Scholberg and T.R. Sinclair. 2007. Soybean (*Glycine max* L. Merr.) genotype response to early-season flooding: I. Root and nodule development. *J. Agron. Crop Sci.* 193:177-188.
61. Henshaw, T.L.***, R.A. Gilbert, J.M.S. Scholberg and T.R. Sinclair. 2007. Soybean (*Glycine max* L. Merr.) genotype response to early-season flooding: II. Aboveground growth and biomass. *J. Agron. Crop Sci.* 193:189-197.
62. Morris, D.R., R.A. Gilbert, C.R. Rainbolt, R.E. Perdomo, G. Powell, B. Eiland and G. Montes. 2007. Sugarcane yields and soil chemical properties due to mill mud applications to a sandy soil. *Proc. Int. Soc. Sugar Cane Technol.* 26:444-448.
63. Edme, S.J., R.A. Gilbert, J.C. Comstock, B. Glaz., P.Y.P. Tai, J.D. Miller, J.W. Duncelman and J.O. Davidson. 2006. Registration of CP 98-1029 sugarcane. *Crop Sci.* 46:1821-1822.
64. Gilbert, R.A., J.M. Shine, Jr., J.D. Miller, R.W. Rice and C.R. Rainbolt. 2006. The effect of genotype, environment and time of harvest on sugarcane yields in Florida, USA. *Field Crops Res.* 95:156-170.
65. Glaz, B. and R.A. Gilbert. 2006. Sugarcane response to water table, periodic flood, and foliar nitrogen on organic soil. *Agron. J.* 98:616-621.
66. Comstock, J.C., B. Glaz, S. J. Edme, R.A. Gilbert, J.D. Miller, P.Y.P. Tai, J.W. Duncelman and J.O. Davidson. 2005. Registration of CP 97-1944 sugarcane. *Crop Sci.* 45:2659-2660.
67. Edme, S., P.Y.P. Tai, B. Glaz, R.A. Gilbert, J.D. Miller, J. Davidson, J. Duncelman and J.C. Comstock. 2005. Registration of CP 96-1252 sugarcane. *Crop Sci.* 45:423.
68. Gilbert, R.A., M. Gallo-Meagher, J.C. Comstock, J.D. Miller, M. Jain and A. Abouzid. 2005. Agronomic evaluation of sugarcane lines transformed for resistance to sugarcane mosaic virus strain E. *Crop Sci.* 45:2060-2067.

69. Gilbert, R.A., P.Y.P. Tai, B. Glaz, S. Edme, J.D. Miller, J. Davidson, J. Duncelman and J.C. Comstock. 2005. Registration of CP 96-1602 sugarcane. *Crop Sci.* 45:786-787.
70. Glaz, B., S.J. Edme, R.A. Gilbert, J.C. Comstock, P.Y.P. Tai, J.D. Miller, J.W. Duncelman and J.O. Davidson. 2005. Registration of CP 97-1989 sugarcane. *Crop Sci.* 45:2660-2661.
71. Glaz, B., P.Y.P. Tai, J.D. Miller, S. Edme, R.A. Gilbert, J. Davidson, J. Duncelman and J.C. Comstock. 2005. Registration of CP 89-2376 sugarcane. *Crop Sci.* 45:785.
72. Miller, J.D., P.Y.P. Tai, S.J. Edme, J. Comstock, B. Glaz and R. Gilbert. 2005. Basic germplasm utilization in the sugarcane development program at Canal Point, Florida, U.S.A. *Proc. Int. Soc. Sugar Cane Technol.* 25:532-536.
73. Morris, D.R. and R.A. Gilbert. 2005. Inventory, crop use, and soil subsidence of Histosols in Florida. *Journal of Food, Agriculture and Environment* 3:190-193.
74. Sinclair, T.R., R.A. Gilbert, R.E. Perdomo, J.M. Shine, Jr., G. Powell and G. Montes. 2005. Volume of individual internodes of sugarcane stalks. *Field Crop Res.* 91:207-215.
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76. Gilbert, R.A., J.M. Shine, Jr., J.D. Miller and R.W. Rice. 2004. Sucrose accumulation and harvest schedule recommendations for CP sugarcane cultivars. *Crop Management*. [online] doi:10.1094/CM-2004-0402-01-RS.
77. Gilbert, R.A., J.M. Shine, Jr., J.D. Miller and R.W. Rice. 2004. The effect of year, cultivar and time of harvest on sugarcane yields in Florida. *J. Amer. Soc. Sugar Cane Technol.* 24:165-184.
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83. Gilbert, R.A., J.L. Heilman and A.S.R. Juo. 2003. Diurnal and seasonal light transmission to cowpea in sorghum-cowpea intercrops in Mali. *J. Agron. Crop Sci.* 189:21-29.
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86. Gilbert, R.A., W.D. Sakala and T.D. Benson. 2002. Gender analysis of a nationwide cropping system trial survey in Malawi. *African Studies Quarterly* 6, no.1: [online] URL: <http://web.africa.ufl.edu/asq/v6/v6i1a9.htm>.
87. Hartkamp, A.D., G. Hoogenboom, R.A. Gilbert, T. Benson, S.A. Tarawali, A.J. Gijsman, W. Bowen and J.W. White. 2002. Adaptation of the CROPGRO growth model to velvet bean (*Mucuna pruriens*) II. Cultivar evaluation and model testing. *Field Crops Res.* 78:27-40.
88. Snapp, S., G. Kanyama-Phiri, B. Kamanga, R. Gilbert and K. Wellard. 2002. Farmer and researcher partnerships in Malawi: developing soil fertility technologies for the near-term and far-term. *Expl. Agric.* 38:411-431.
89. Hay, R.K.M. and R.A. Gilbert. 2001. Variation in the harvest index of tropical maize: evaluation of recent evidence from Mexico and Malawi. *Ann. Appl. Biol.* 138: 103-109.

Cultivars developed: (Total 33)

Note: In 2017, the 6 leading sugarcane clones, and 9 of the top 12, in the FL census were those released from the collaborative “CP” sugarcane breeding program during my tenure and listed below (*Sugar Journal, July, 2018, 10-19*). This includes the #1 variety, CP 96-1252 (134,962 acres, 34.2% of the industry in FL). Cumulatively these cultivars occupied 290,239 acres, or 73.4% of the FL industry. This represents an annual farm gate value of \$382M for the \$520M industry.

1. Davidson, R.W., H.S. Sandhu, P. McCord, J.C. Comstock, S.J. Edme, D. Zhao, B. Glaz, S.

- Sood, N.C. Glynn, R. A. Gilbert, M.P. Singh, M. Baltazar and K. McCorkle. 2016. Registration of 'CP06-2042' sugarcane.
2. Gordon, V.S., J.C. Comstock, H.S. Sandhu, R.A. Gilbert, S.G. Sood, P. Korndorfer, N. El-Hout and R. Arundale. 2016. Registration of 'UFCP 87-0053' sugarcane for use as a biofuel feedstock.
 3. Sandhu, H., P. McCord, J. Comstock, S. Edme, D. Zhao, M. Singh, W. Davidson, S. Sood, N. Glynn, R. Gilbert, V. Gordon, M. Baltazar and K. McCorkle. 2016. Registration of 'CP07-2137' sugarcane.
 4. Edme, S.J., R.W. Davidson, D. Zhao, J.C. Comstock, H.S. Sandhu, B. Glaz, S. Milligan, C.-J. Ju, S. Sood, K. McCorkle, R.A. Gilbert and N.C. Glynn. 2016. Registration of CPCL 05-1201 sugarcane.
 5. Sandhu, H.S., R.A. Gilbert, J.C. Comstock, V.S. Gordon, P. Korndorfer, N. El-Hout and R.A. Arundale. 2015. Registration of UFCP 74-1010 sugarcane.
 6. Sandhu, H.S., R.A. Gilbert, J.C. Comstock, V.S. Gordon, P. Korndorfer, R.A. Arundale and N. El-Hout. 2015. Registration of UFCP 82-1655 sugarcane.
 7. Zhao, D., J.C. Comstock, H.S. Sandhu, B. Glaz, S.J. Edme, R.W. Davidson, S. Sood, R.A. Gilbert, K. McCorkle and N.C. Glynn. 2015. Registration of CP 06-2400 sugarcane.
 8. Sandhu, H.S., J.C. Comstock, R.A. Gilbert, V.S. Gordon, P. Korndorfer, N. El-Hout and R. A. Arundale. 2015. Registration of UFCP 78-1013 sugarcane cultivar.
 9. Sandhu, H.S., B. Glaz, S.J. Edme, R. W. Davidson, D. Zhao, J.C. Comstock, R.A. Gilbert, S.B. Milligan, C.-J. Hu, N.C. Glynn, S. Sood and K. McCorkle. 2014. Registration of CPCL 02-6848 sugarcane.
 10. R.W. Davidson, D. Zhao, J.C. Comstock, H.S. Sandhu, B. Glaz, S.J. Edme, S. Sood, R.A. Gilbert, S. Sood, N.C. Glynn, S.B. Milligan and C.-J. Hu. 2013. Registration of CPCL 05-1791 sugarcane.
 11. Zhao, D., J.C. Comstock, B. Glaz, S. J. Edme, R.W. Davidson, R.A. Gilbert, N.C. Glynn, S. Sood, H.S. Sandhu, K. McCorkle, J.D. Miller and P.Y.P. Tai. 2013. Registration of CP 05-1526 sugarcane.
 12. Comstock, J.C., B. Glaz, S.J. Edme, R.W. Davidson, R.A. Gilbert, N.C. Glynn, D. Zhao, S. Sood, J.D. Miller and P.Y.P. Tai. 2013. Registration of CP 04-1566 sugarcane.
 13. Glaz, B., S.J. Edme, R.W. Davidson, D. Zhao, J.C. Comstock, H.S. Sandhu, N.C. Glynn, R.A. Gilbert, S. Sood, K. McCorkle, S.B. Milligan and C.-J. Hu. 2013. Registration of CPCL 05-1102 sugarcane.

14. Edme, S.J., R.W. Davidson, R.A. Gilbert, N.C. Glynn, D. Zhao, J.C. Comstock, B. Glaz, S. Sood, J.D. Miller and P.Y.P. Tai. 2013. Registration of CP 04-1935 sugarcane.
15. Gilbert, R.A., N.C. Glynn, S.B. Milligan, D. Zhao, J.C. Comstock, B. Glaz, S.J. Edme, R.W. Davidson, S. Sood and C-J. Hu. 2013. Registration of CPCL 02-1295 sugarcane.
16. Glynn, N.C., D. Zhao, J.C. Comstock, S.B. Milligan, B. Glaz, S.J. Edme, R.W. Davidson, R.A. Gilbert, C-J Hu, S. Sood and A. D'Hont. 2013. Registration of CPCL 02-0926 sugarcane.
17. Davidson, R.W., S.B. Milligan, R.A. Gilbert, N.C. Glynn, D. Zhao, J.C. Comstock, B. Glaz, S.J. Edme, C.J. Hu, D.G. Holder and S. Sood. 2012. Registration of CPCL 95-2287 sugarcane.
18. Gilbert, R.A., J.C. Comstock, B. Glaz, I. A. del Blanco, S.J. Edme, R. W. Davidson, N.C. Glynn, S. Sood, D. Zhao, J.D. Miller and P.Y.P. Tai. 2011. Registration of CP 03-1912 sugarcane.
19. Glynn, N.C., S.B. Milligan, R.A. Gilbert, R.W. Davidson, J.C. Comstock, B. Glaz, S.J. Edme, C. J. Hu, D.G. Holder, I.A. del Blanco, S. Sood and D. Zhao. 2011. Registration of CPCL 00-4111 sugarcane.
20. Davidson, R.W., S.B. Milligan, B. Glaz, J.C. Comstock, C-J. Hu, N.C. Glynn, S.J. Edme, D.G. Holder, R.A. Gilbert, S. Sood, I.A. del Blanco and D. Zhao. 2010. Registration of CPCL 99-4455 sugarcane.
21. Edme, S.J., R.W. Davidson, R.A. Gilbert, J.C. Comstock, N.C. Glynn, B. Glaz, I.A. del Blanco, J.D. Miller and P.Y.P. Tai. 2009. Registration of CP 01-1372 sugarcane.
22. Milligan, S.B., R.W. Davidson, S.J. Edme, J.C. Comstock, C.J. Hu, D.G. Holder, B. Glaz, N.C. Glynn and R.A. Gilbert. 2009. Registration of CPCL 97-2730 sugarcane.
23. Comstock, J.C., B. Glaz, S.J. Edme, R.W. Davidson, R.A. Gilbert, N.C. Glynn, J.D. Miller, and P.Y.P. Tai. 2008. Registration of CP 00-1446 sugarcane.
24. Glaz, B., S.J. Edme, R.W. Davidson, R.A. Gilbert, J.C. Comstock, N.C. Glynn, J.D. Miller, and P.Y.P. Tai. 2008. Registration of CP 00-2180 sugarcane.
25. Gilbert, R.A., J.C. Comstock, B. Glaz, S.J. Edme, R. W. Davidson, N.C. Glynn, J. D. Miller, and P.Y.P. Tai. 2007. Registration of CP 00-1101 sugarcane.
26. Edme, S.J., R.A. Gilbert, J.C. Comstock, B. Glaz., P.Y.P. Tai, J.D. Miller, J.W. Duncelman and J.O. Davidson. 2006. Registration of CP 98-1029 sugarcane.
27. Comstock, J.C., B. Glaz, S. Edme, R.A. Gilbert, J.D. Miller, P.Y.P. Tai, J.W. Duncelman and J.O. Davidson. 2005. Registration of CP 97-1944 sugarcane.

28. Edme, S.J., P.Y.P. Tai, B. Glaz, R.A. Gilbert, J.D. Miller, J. Davidson, J. Duncelman and J.C. Comstock. 2005. Registration of CP 96-1252 sugarcane.
29. Gilbert, R.A., P.Y.P. Tai, B. Glaz, S. Edme, J.D. Miller, J. Davidson, J. Duncelman and J.C. Comstock. 2005. Registration of CP 96-1602 sugarcane.
30. Glaz, B., S. Edme, R.A. Gilbert, J.C. Comstock, P.Y.P. Tai, J.D. Miller, J.W. Duncelman and J.O. Davidson. 2005. Registration of CP 97-1989 sugarcane.
31. Glaz, B., P.Y.P. Tai, J.D. Miller, S. Edme, R.A. Gilbert, J. Davidson, J. Duncelman and J.C. Comstock. 2002. Registration of CP 89-2376 sugarcane.
32. Miller, J.D., B. Glaz, P.Y.P. Tai, S. Edme, R.A. Gilbert, J. Davidson, J. Duncelman and J.C. Comstock. 2001. Registration of CP 94-1340 sugarcane.
33. Tai, P.Y.P., J.D. Miller, B. Glaz, S. Edme, R.A. Gilbert, J. Davidson, J. Duncelman and J.C. Comstock. 2001. Registration of CP 94-1100 sugarcane.

Selected Reviewed Extension Publications on Electronic Data Information Source: (Career total 52)

Gilbert, R., J. Ferrell, and Z. Helsel. 2008. Production of giant reedgrass for biofuel. University of Florida Cooperative Extension Service Fact Sheet SS-AGR-318. 4 pp. University of Florida, UF/IFAS Electronic Data Information Source (EDIS) Database, <http://edis.ifas.ufl.edu/AG327>

Rainbolt, C., and R. Gilbert. 2008. Production of biofuel crops in Florida: Sugarcane/Energycane. University of Florida Cooperative Extension Service Fact Sheet SS-AGR-298. 4 pp. University of Florida, UF/IFAS Electronic Data Information Source (EDIS) Database, <http://edis.ifas.ufl.edu/AG303>

Gilbert, R.A., J.M. Shine, Jr. and R.W. Rice. 2007. Performance of CP sugarcane cultivars grown in different locations in Florida. University of Florida Cooperative Extension Service Fact Sheet SS-AGR-285. 7 pp. University of Florida, UF/IFAS Electronic Data Information Source (EDIS) Database, <http://edis.ifas.ufl.edu/SC086>

Gilbert, R.A., J.D. Miller, J.C. Comstock, B. Glaz and S.J. Edme. 2007. Performance of foreign cane germplasm on Florida sandlands. University of Florida Cooperative Extension Service Fact Sheet SS-AGR-270. 7 pp. University of Florida, UF/IFAS Electronic Data Information Source (EDIS) Database, <http://edis.ifas.ufl.edu/SC084>

Notable Grant Support:

Funding Period	Grant Amount (% share)	Funding Agency/ Title	Role
2013-2016	\$1,660,200 (100%)	Florida Sugar Cane League/ Increased funding for support positions to strengthen the sugarcane breeding program	PI
2012-2015	\$764,791 (100%)	BP/ Energycane selection Program	PI
2011-2013	\$1,069,710 (12.7%)	Department of Energy/ Discovering the desirable alleles contributing to the lignocellulosic biomass traits in Saccharum germplasm.	Co-PI
2011-2014	\$113,860 (100%)	Florida Sugar Cane League/ Technician support for sugarcane breeding program.	PI
2010-2013	\$951,000 (4.25%)	Department of Energy/ Hendry County Sustainable Biofuels Center	Investigator

Summary of External Grant Funding Received 2010 - Present			
Role	Total	Direct Costs	Indirect Costs
Principal Investigator	\$2,538,851	\$2,391,293	\$147,558
Co-Principal Investigator	\$135,853	\$92,488	\$43,365
Investigator	\$40,417	\$32,917	\$7,500
TOTALS	\$2,715,121	\$2,516,698	\$198,423

Graduate Committee Activities

Role	Student	Research Topic	Home Dept.	Complete Date
Chair, 1 Ph.D. Committee	James M. Shine, Jr.	Modeling sugarcane growth and yield	Agronomy	2019 (Expected)
Chair, 2 M.S. Committees	Pedro Korndorfer	Bioenergy grass performance on Florida sandlands	Agronomy	2011

Role	Student	Research Topic	Home Dept.	Complete Date
	Stephen Jennewein	Effect of water table management on biofuel crop growth	Agronomy	2013
Member, 2 Ph.D. Committees	Lixiang Dong	Sugarcane crop modeling	Agricultural & Biological Engineering	Withdrew 2008
	Hardev Singh Sandu	Entomology of green sugarcane systems	Entomology	2010
Member, 1 M.S. Committee	Yuan Xiong	Transgenic sugarcane	Agronomy	2011

Lectures, speeches or posters at international meetings:

Invited (Total: 10)

Van Antwerpen, R., R. Ng Cheong, N. Miles and R. Gilbert. 2016. Strategies for cane production in marginal environments and under more environmental scrutiny. Plenary Session. International Society of Sugar Cane Technologists. Chiang Mai, Thailand. 2016.

R.A. Gilbert and H.S. Sandhu. Challenges of shifting revenue sources: a case study of U.S. land grant universities. Plenary Session. International Society of Sugar Cane Technologists Congress. Sao Paulo, Brazil. 2013.

Gilbert, R.A. Sugarcane agronomy: trends, opportunities and challenges. Keynote Address. International Society of Sugar Cane Technologists Agronomy Workshop. Townsville, Australia, September, 2012.

Gilbert, R.A., J.C. Comstock, P.H. Korndorfer, Z.R. Helsel and C. LaBorde. Energycane varietal program development in Florida. Poster Presentation. USDA-ARS Collaborative Meeting with Central American Ministers of Energy. Canal Point, FL, August, 2010.

Gilbert, R.A., G. Kingston, K. Morgan, R.W. Rice, L. Baucum, J.M. Shine, and F. Subiros. Effect of harvest method on sugarcane growth and yield in Florida and Costa Rica. Oral Presentation. International Conference on Bio-Fuel Crop Production and Development. Zamorano University, Honduras, August, 2010.

Leon, R.G., R.A. Gilbert, and J.C. Comstock. Selection of energycane clones for biomass production under tropical and sub-tropical conditions. Oral Presentation. International Conference on Bio-Fuel Crop Production and Development. Zamorano University, Honduras, August, 2010.

Gilbert, R.A., B.K. Singh, K. Morgan, J. Perret, R. Leon, W. Vendrame, M. McCray, R. Botero, J. Comstock, F. Elango, B. Kohlmann and G. Nuessly. Global agronomic center for green energy: A collaborative project between the University of Florida and EARTH University, Costa Rica. Joint meeting of Florida and Costa Rica legislators, industry representatives and researchers, San Jose, Costa Rica, June, 2010.

Gilbert, R.A., G. Kingston, K. Morgan, R.W. Rice, L. Baucum, J.M. Shine, and J.F. Subiros. Effect of harvest method and microclimate and sugarcane yield in Florida and Costa Rica. International Society of Sugar Cane Technologists Joint Meeting. Veracruz, Mexico, March, 2010.

Gilbert, R.A., J. Erickson and Z.R. Helsel. Producing sweet sorghum and sugarcane in Florida for bioethanol: opportunities and challenges. International Conference on Research and Education Opportunities in Biofuel Crop Production. EARTH University, Costa Rica, November, 2008.

Gilbert, R.A., J. Perret, B.K. Singh, K. Morgan, B. Kohlmann, R. Leon, R. Botero, M. McCray, F. Elango, G. Nuessly and J. Comstock. Department of Energy funding – a model for inter-institutional cooperation in biofuel research. International Conference on Research and Education Opportunities in Biofuel Crop Production. EARTH University, Costa Rica, November, 2008.

Volunteered (Total: 7)

Sandhu, H.S., R.A. Gilbert, G. Kingston, J.F. Subiros, K. Morgan, R.W. Rice, L. Baucum, J. M. Shine, Jr., and L. Davis. Effects of harvest method on sugarcane trash nutrients and yield in FL and Costa Rica. ASA, CSSA, and SSSA International Annual Meeting, Cincinnati, OH, October, 2012

Sandhu, H.S., R.A. Gilbert, R. Perdomo, and J.M. McCray. Relating leaf area index, visual growth ratings and biomass yield in sugarcane. 4th IAPSIT International Sugar Conference (IS-2011), New Delhi, India, November, 2011.

Jennewein, S., R.A. Gilbert, A. Wright, B. Glaz, D. Rowland, J. Bennett and R. Schnell. Physiological and morphological effects of high water tables on giant reed (*Arundo donax*) elephant grass (*Pennisetum purpureum*), energycane and sugarcane (*Saccharum* spp.) ASA, CSSA, and SSSA International Annual Meeting, Cincinnati, OH, October, 2012.

Gilbert, R.A., G. Kingston, K. Morgan, R.W. Rice, L. Baucum, J.M. Shine and F. Subiros. Effect of harvest method on sugarcane growth and yield in Florida and Costa Rica. Oral presentation. International Society of Sugar Cane Technologists Agronomy Workshop. Uberlandia, Brazil, June, 2009.

Gilbert, R.A., J.D. Miller, J.C. Comstock, B. Glaz and S.J. Edme. Performance of exogenous germplasm on mineral soils of Florida, USA. Poster Presentation.

International Society of Sugar Cane Technologists XXVI Congress. Durban, South Africa, July, 2007.

Morris, D.R., R.A. Gilbert, C.R. Rainbolt, R.E. Perdomo, G. Powell, B. Eiland and G. Montes. Sugarcane yields and soil chemical properties due to mill mud applications to a sandy soil. Poster Presentation. International Society of Sugar Cane Technologists XXVI Congress. Durban, South Africa, July, 2007.

Gilbert, R.A., D.R. Morris, R.E. Perdomo, G. Powell, B. Eiland and C.R. Rainbolt. Comparison of nutrient sources for mineral soil nutrition in Florida sugarcane. Oral Presentation. International Society of Sugar Cane Technologists Agronomy Workshop. Khon Kaen, Thailand, July, 2006.

University Governance and Service:

- Member, University of Florida Biomedical and Life Science Collaborations Committee (2019)
- Chair, UF/IFAS Cultivar Release Committee (2019-present)
- Chair of UF/IFAS Department Chairs (2017-2018)
- Member, University of Florida Goal Setting Task Force for President Fuchs (2015)
- Chair, Agricultural Education and Communication Department Chair Search Committee (2015-2016)
- Member, EDIS Task Force (2015-2016)
- Chair, UF/IFAS Associate Dean for Extension and Agricultural Program Leader Search Committee (2014)
- Member, UF/IFAS Associate Vice President of Operations Search Committee (2014)
- Chair, 4 Cultivar Release Advisory Committees: Bioenergy, Forage, Peanut, Row Crops and Turfgrass (2014-present)
- Member, UF/IFAS Cultivar Release Committee (2014- present).
- Member, Plant Science Research and Education Unit Advisory Committee (2014 – 2017).
- Member, Plant Nutrient Oversight Committee (2014-present).
- Chair, UF/IFAS Professional Development Leave Committee (2010-2012).
- Member, Sweet Corn Germplasm Cultivar Release Advisor Committee (2010-2013).
- Member, Faculty Enhancement Opportunity Award Committee (2008-2012).
- Liaison, EREC Unit to IFAS International Programs (2007 – 2013).
- Chair, Sugarcane Fertilization Standards Task Force (2006 – 2009).
- Editor, EDIS Sugarcane Handbook online (2001 – 2009).
- Member, Mentoring Committee for Dr. Brent Sellers (2006 – 2011).
- Co-Chair, UF/IFAS Extension Sugarcane and Rice Focus Action Team, (2006 – 2011).
- Chair, UF/IFAS Extension Sugarcane and Rice Focus Action Team, (2003 – 2006).
- Chair, Mentoring Committee for Dr. Ike Ezenwa (2006 – 2007).
- Chair, Sandland Sugarcane Nutrient Task Force Committee (2006 – 2007).
- Member, Agronomy Department Distance Education Committee (2006).

- Member, Search and Screen Committee for Assistant Scientist, SWFREC (2004).
- Chair, State Major Program FL-129 (2003).
- Member, Search and Screen Committee for Sugarcane Area Specialized Agent, South District, (2003).
- Co-chair State Major Program FL-129 (2001 – 2002).
- Member and University of Florida representative, Sugarcane Variety Release Committee (2000 – 2013).
- Chair, Search and Screen Committee for Everglades REC Weed Science Faculty (2009-2010).
- Member, Search and Screen Committee for Everglades REC Weed Science Faculty (2004).
- Chair, Computer Committee, Everglades REC (2003 – 2005).
- Member, Awards and Bonus Committee, Everglades REC (2002 – present).
- Member, Landscaping Committee, Everglades REC (2002 – present).
- Member, Water Control and Land Use Committee, Everglades REC (2002).
- Member, Transgenic Committee, Everglades REC (2002).
- Chair, Social Committee, Everglades REC (2001 – 2002).

Service to the Profession:

- Executive Committee, International Society of Sugar Cane Technologists (2013-present).
- Chair, Technical Program Committee, International Society of Sugar Cane Technologists (2013-present).
- Agricultural Commissioner, International Society of Sugar Cane Technologists (2010-2013).
- Chair, Agronomy Section of Agricultural Commission, International Society of Sugar Cane Technologists (2010-2013).
- Section Editor, Agricultural Section, Proceedings of the International Society of Sugar Cane Technologists (2012 – 2013); 81 manuscripts
- Technical Editor, Agriculture Section, Journal of American Society of Sugar Cane Technologists (2009- 2012); 12 manuscripts.
- President, American Society of Sugar Cane Technologists Florida Executive Committee (2004 – 2005).
- First Vice-President, American Society of Sugar Cane Technologists Executive Committee (2003 - 2004)
- Chair-at-large, American Society of Sugar Cane Technologists Executive Committee (2003).

Honors:

- USDA/ARS Sustained Effort Technology Transfer Award, Canal Point Sugar Variety Selection Team, 2011
- UF/IFAS International Achievement Award, 2009.
- Denver T. Loupe Best Presentation Award, American Society of Sugar Cane Technologists joint annual meeting: 2009, 2007, 2006, 2003.