

## BACKGROUND INFORMATION

Name: **David G. Riley**

Contact Information: Dept. of Entomology, UGA, 2360 Rainwater Rd., Tifton GA 31793, phone 229-386-3374, cell 229-520-7140 email dgr@uga.edu

Affiliation: Dept. of Entomology, University of Georgia (UGA), Tifton Campus

Current professional title: Professor

Appointment: 100% Research

Educational and Professional Background:

<u>Degrees:</u>	<u>(Dates)</u>	<u>(Institutions)</u>
B. S.	1981	Agronomy - University of Georgia, Athens, GA
M. S.	1986	Entomology - North Carolina State University, Raleigh, NC
Ph. D.	1990	Entomology - University of Florida, Gainesville, FL

<u>Professional positions held</u>	<u>Employer</u>	<u>Dates</u>
Assistant Professor	Texas A&M University	1990-96
Associate Professor	Texas A&M University	1996
Assistant Professor	University of Georgia	1996-02
Associate Professor	University of Georgia	2002-07
Professor	University of Georgia	2007-present

Awards and Honors:

2018	2018 Friends of Southern IPM-IPM Educator Award, Southern IPM Center
2017	ESA Recognition Award in Entomology, National Entomol. Soc. of America
2017	Recognition for Outstanding Service as President of the SEB Entomol. Soc. of America
2016	ESA Recognition Award for the SEB of the Entomological Society of America
2014	Founders' Lecture Award for the Georgia Entomological Society
2014	Certificate of Recognition from The University of Georgia Career Center
2010	Award of Excellence for Senior Scientist UGA Tifton Campus
2010	Award of Appreciation and Gratitude by Dupont Crop Protection
2009	O. I. Snapp Award for Best Non-student Research Paper presentation, Annual Mtg. At the Georgia Entomological Society Annual Meeting
2002	Creative Research Award by the Sigma Xi - Tifton Chapter
1997	Award of Excellence for Junior Scientist at the UGA Coastal Plain Experiment Station

**CONTRIBUTIONS TO TEACHING:** No formal teaching appointment, but served as instructor of record for an undergraduate course ENTO 4350 that I created and ENTO 4000/6000 General Entomology on the Tifton Campus. Created a graduate version of ENTO 4350 Crop Specific Insect Management, i.e., ENTO 6350, which was recently approved in the CAPA system of the University of Georgia and first taught in 2015. Teach Special Problems in Entomology ENTO8900 each year which ranged from 1 student for 1 credit each to 6 graduate students for 2 credits each. Regularly guest lecture, typically calculated as 2% per lecture and 6% for a lecture and a lab. Through graduate student instruction I have MS Research (example ENTO7000 - 36 credits to 2017), MS Thesis (ENTO7300 - 30 credits to 2017), PHD Research (ENTO9000 - 51 credits to 2017), and PHD Thesis (ENTO9300 - 24 credits to 2017) that were supervised are not listed, but should be noted. Listed as the instructor of record for ENTO 4000/6000 when it was taught for the first time on the Tifton Campus Fall 2007. Developed the lecture series to coincide with the materials being taught on the Athens Campus, but tailored it to service the Masters in Ag Education major and the MPPPM graduate major. Previously taught the IPM sections in the fall ENTO 4000/6000 classes.

Served as the Graduate Coordinator of the Masters in Plant Protection and Pest Management (MPPPM) through 2019 which averaged 21 graduate students enrolled per semester its last 5 years. Graduated 44 MPPPM students

since taking over as Coordinator in 2014 or approximately one third of all the graduates since the program's inception in 1973. In this non-thesis Master's Program, advised and filled out the program of study forms for each student, effectively serving as co-chair for each student's committee along with a Major Professor/Internship Supervisor. In 2015, drafted the first MPPPM graduate handbook since the program's inception in 1973 and updated the websites. Also served as Major Professor for six MPPPM students. My development and teaching of ENTO 4350/6350 "Crop Specific Insect Management", services the AES and MPPPM majors, respectively, and offered each summer on the Tifton Campus. The course syllabus is posted under the UGA website at: <https://syllabus.uga.edu/Browse.aspx>. (2) Conducted the initial industry survey for a proposed UGA 4-year degree program at the Tifton Campus, which was used as justification for the new Agricultural and Environmental Science major. (3) Served for two years on the initial Curriculum Committee for AES and have served on the departmental academic affairs for over 10 years.

**Direction of Graduate Study:** Currently a member of the UGA Graduate Faculty, the MPPPM Graduate Coordinator, and have served as major professor for 28 graduate student programs, served on 24 regular graduate student committees and graduated 44 MPPPM students during the five years I coordinated. Served on the CAES and Department of Entomology Academic Affairs Committee, CAPA, and serve on the departmental graduate admissions subcommittee.

**Graduate Students Advised** (listed by year started, degree, and institution)

M. Berdegue*	1992 MS (awarded)	Texas A&M Univ.
R. Norris*	1995 MS (early termination)	Texas A&M Univ.
C. Moomaw	1996 MS (awarded)	Texas A&M Univ.
E. Barbosa	1996 PhD (awarded)	ITESM Monterrey, Mexico
U. Camberos*	1996 PhD (awarded)	Texas A&M Univ.
B. Hamilton	1997 PhD (awarded)	Texas A&M University
M. Clavor	1998 PhD (awarded)	Man.Sun.Univ., TamilNadu, India
J. Thielen*	1998 MS (early termination)	Univ. of Georgia
Khalique Ahmed	1999 PhD (awarded)	P.Prog.NARC Islamabad, Pakistan
C. Chaisuekul*	2000 MS (awarded)	Univ. of Georgia
Y. Wang	2001 PhD (awarded)	Univ. of Georgia
H. P. Joost*	2003 PhD (awarded)	Univ. of Georgia
C. Chaisuekul*	2004 PhD (awarded)	Univ. of Georgia
Ravichandran, B.	2004 PhD (awarded-reading)	St. Xavier Col., TamilNadu, India
Anitha Chitturi*	2005 MS (awarded)	Univ. of Georgia
James Taylor*	2006 MS (awarded)	Univ. of Georgia
Gina Angelella*	2008 MS (awarded)	Univ. of Georgia
Anitha Chitturi*	2010 PhD (awarded)	Univ. of Georgia
Stuart Mckinney*	2010 MS (early termination)	Univ. of Georgia
Anita Shrestha	2011 MS (awarded)	Univ. of Georgia
Evelyn Carr*	2012 PhD (early termination)	Univ. of Georgia
Jureerat Ratanatip	2012 PhD (student internship)	Khon Kaen Univ., Thailand
Krishna Bhandari*	2013 MPPPM (awarded)	Univ. of Georgia
Kicklighter, Jenna*	2015 MPPPM (awarded)	Univ. of Georgia
Meredith Dempsey*	2015 MS (awarded)	Univ. of Georgia
Iftikhar, Romana	2015 PhD (awarded-reading)	Pakistan Inst. Eng. Applied Sciences
Macharia, Isaac	2015 PhD (awarded-reading)	Univ. New England, Australia
Harty, Thomas*	2016 MPPPM (awarded)	Univ. of Georgia
Liu, Tzu-Chin	2016 MS (MS awarded)	Univ. of Georgia
Grant, Joshua	2016 MS (MS awarded)	Univ. of Georgia
Verdi, MARRISA*	2016 MPPPM (awarded)	Univ. of Georgia
Torrance, Philip*	2017 MPPPM (awarded)	Univ. of Georgia

Huffman, Evan*	2018 MPPPM (awarded)	Univ. of Georgia
Masood, Mariyam	2019 PhD (awarded-reading)	Pakistan Inst. Eng. Applied Sciences
Sparks, Tanner*	2019 MS (awarded)	Univ. of Georgia
Dunn, Thomas “Sam”*	2019 MS (awarded)	Univ. of Georgia
Bennett, John*	2019 MPPPM (awarded)	Univ. of Georgia
Singh, Gurjit	2019 MS (awarded)	Univ. of Georgia
Kumar, Lobin Kanta	2019 PhD (candidacy)	University of Mauritius, Réduit
Gireesh, Midhula	2019 MS (awarded)	Univ. of Georgia
Barton, William 2019	MS (awarded)	Univ. of Georgia
Perier, Jermaine*	2020 PhD (current)	Univ. of Georgia
Brown, Tashani T. *	2020 PhD (early withdrawal)	Univ. of Georgia
Swikriti Pandey	2020 MS (awarded)	Univ. of Georgia
Mylee Mobley	2021 MS (current)	Univ. of Georgia
Al Baki, Md Abdullah*	2021 PhD (current)	Univ. of Georgia
Nagaoka, Mirela*	2021 MS (current)	Univ. of Georgia
Ghimire, Mahesh	2021 MS (current)	Univ. of Georgia
Dunn, Thomas “Sam”	2021 PhD (current)	Univ. of Georgia
Brown, William*	2022 MPPPM (awarded)	Univ. of Georgia
Rosan Adhikari	2023 Sial’s PhD student	Univ. of Georgia
Nirmala Acharya	2023 McAvoy’s PhD student	Univ. of Georgia

#### **Thesis and dissertations** (only listed those for which I served as major professor\*)

- \*Mariano Berdegue. 1992. Plant resistance in pepper to the pepper weevil (*Anthonomus eugenii* Cano). M.S. Thesis, Texas A&M University. 142 pp.
- \*Urbano Nava-Camberos. 1996. Bionomics of *Bemisia argentifolii* Bellows & Perring on Cotton, Cantaloupe, and Pepper. PhD Dissertation, Texas A&M University, 212 pp.
- \*Robert Norris. 1996. Integrated pest management in pepper. (M.S. student at Texas A&M completed data collection and coursework but not the thesis)
- \*Jennifer Butler-Thielen. Grasshoppers as contaminants in leafy greens. (M.S. student at UGA, began January 1998, terminated program after one year due to pregnancy)
- \*Chatchawan Chaisuekul. 2000. Tomato plant age effects on the transmission of *tomato spotted wilt virus* and insecticide inhibition of thrips vector feeding. MS Thesis University of Georgia 98 pp.
- \*Houston P. Joost. 2003. The effects of imidacloprid, plant age and leaf age on the probing and settling behavior of *Frankliniella fusca* and *Frankliniella occidentalis* (Thysanoptera: Thripidae) in pre-flowering tomato. (**Fulbright Scholarship**) Dissertation University of Georgia 130 pp.
- \*Chatchawan Chaisuekul. 2004. Host plant and temperature effects on population dynamics of thrips vectors of tomato spotted wilt virus. Dissertation University of Georgia 109 pp.
- \*Anitha Chitturi. 2005. Effect of pine pollen on settling behavior and oviposition in *Frankliniella occidentalis* and *Frankliniella fusca* (Thysanoptera: Thripidae) on tomato and peanut. MS Thesis University of Georgia 108 pp.
- \*James Taylor. 2006. Impact of *Spodoptera exigua*, beet armyworm, on tomato. MS Thesis University of Georgia 98 pp.
- \*Gina Angelella. 2008. Pine pollen effects on *Frankliniella occidentalis* and *Frankliniella fusca* (Thysanoptera: Thripidae) reproduction. MS Thesis University of Georgia 87 pp.
- \*Anitha Chitturi. 2010. Thrips *tabaci* (Thysanoptera: Thripidae) and Iris yellow spot virus (Genus *Tospovirus*, Family: *Bunyaviridae*) in onions: biology and transmission studies. Dissertation University of Georgia 201 pp.
- \*Meredith Dempsey. 2015. Studies on the management of sweetpotato whitefly, *Bemisia tabaci*, and tomato yellow leaf curl virus in tomato. MS Thesis University of Georgia 153 pp.

- \* Tanner Sparks. 2020. Insecticide bioassays for detecting resistance in whitefly. MS Thesis University of Georgia 100 pp.
- \* Thomas Sam Dunn. 2021. Molecular basis of insecticide resistance in the diamondback moth, *Plutella xylostella*, (Lepidoptera: Plutellidae) in Georgia and Florida with emphasis on diamide insecticides. MS Thesis University of Georgia 102 pp.

### Accomplishments of Former Students

Mariano Berdegue completed PhD under major advisor John Trumble Univ. California Riverside in 1996 and went to work for Monsanto, Mexico. Urbano Nava-Camberos became a senior researcher at the Campo Experimental (INIFAP), Torreón, Mexico. Chatchawan Chaisuekul became an assistant professor at the acclaimed Chulalongkorn University at Bangkok, Thailand. Houston P. Joost was promoted to the position Product Development Manager in charge of all pesticide products produced by FMC Corporation for the USA. James Taylor finished at the University of Florida as a PhD under David Schuster and currently works for Dupont. Gina Angella has finished a PhD program at Purdue University. Anitha Chitturi worked as the principal entomologist for a seed company in India. Krishna Bhandari is in a PhD program at the University of Texas, Jenna Kicklighter has one extension publication and one refereed journal article from her non-thesis internship and was the county agent in Colquitt, the heaviest vegetable production area in GA. She took a job with Syngenta in 2018. Thomas Harty works for EPA in Maryland and Marissa Verdi works for Harris Seed Company. Evan Huffman works for Helena at the Cordele office. John Bennett is a UGA county agent. Tanner Sparks went on for a PhD at LSU. Sam Dunn continued on at UGA for a PhD.

### Other Teaching or Advising Activities:

Served annually as a mentor for the Young Scholars Program at the Tifton Campus since 2003 and served on the review panel for applicants to the 2007-2010 programs. I hosted high school teachers in the GIFT (Georgia Industrial Fellowships for Teachers) Program in 2003 and 2004. I have participated in the Tifton Chapter of Sigma Xi Adopt a School Program with North East Campus of Tift County High School and mentoring for the ABAC Regional Science Fair for which I also served as judge annually since 1998.

**CONTRIBUTIONS TO RESEARCH (brief synopsis):** Currently, I have three areas of scientific research, *vegetable insect management*, *insect population dynamics*, and *plant - insect interactions* especially as it relates to plant-insect-virus interactions, the development of economic injury levels/threshold, evaluating host plant resistance and insecticide resistance management. Several recent areas of emphasis include the management of insecticide resistant diamondback moth, *Plutella xylostella*, in cole crops, management of thrips-vectored Tospovirus in vegetable crops, management of cowpea curculio in cowpeas, the management of whitefly-vectored Begomovirus in vegetable crops in Georgia and insecticide resistance management in whiteflies.

### Summary of Publications

	<u>Totals</u>
Book Chapters	10
Refereed Journal Publications	99
Non-refereed Journals Publications	45
Published Proceedings	30
Abstracts	140
Experiment Station and Extension Publications	45
Non-Refereed Experiment Station Publications	<u>71</u>
Total	440

### Book Chapters

1. Riley, D.G., U. Nava-Camberos and J. Allen. 1995 Population dynamics of *Bemisia* in agricultural systems. pp. 93-109 In Gerling and Mayer (Eds.), *Bemisia* 1995: Taxonomy, Biology, Damage, Control and Management. Intercept Ltd., Andover, Hants, UK. 702 pp.

2. Allen, J.C. C.C. Brewster, J.F. Paris, **D.G. Riley**, and C.G. Summers. 1995. Spatio-temporal modelling of silverleaf whitefly dynamics in a regional cropping system using satellite data. pp. 111-124 *In* Gerling and Mayer (Eds.) *Bemisia 1995: Taxonomy, Biology, Damage, Control and Management*. Intercept Ltd., Andover, Hants, UK. 702 pp.
3. Nichols, R.L., W.J. Bentley, C.C. Chu, P.C. Ellsworth, P.B. Goodell, T.J. Heneberry, S.E. Naranjo, **D.G. Riley**, N.C. Toscano, and T.F. Watson. 1995. Determining an action threshold to prevent *Bemisia* outbreaks in cotton. pp. 241-242 *In* Gerling and Mayer (Eds.) *Bemisia 1995: Taxonomy, Biology, Damage, Control and Management*. Intercept Ltd., Andover, Hants, UK. 702 pp.
4. **Riley, D.G.** 1997. Management of the silverleaf whitefly. pp 135-148, *In* (K. Bondari, ed) *New Developments in Entomology*. Research Sign Post. Trivandurm, India.
5. Webb, S., **D. Riley**, and G. Brust. 2001. Insect and mite pests, pp 131-149. *In* (D.N. Maynard, ed) *Watermelons: Characteristics, Production, and Marketing*. American Soc. Hort. Science Press, Alexandria, VA. 227 pp.
6. **Riley, D. G.** 2004. Pepper Weevil, *Anthonomus eugenii* Cano (Coleoptera: Curculionidae), pp 1654-1656. *In* J. Capinera (Ed.) *Encyclopedia of Entomology*. Kluwer Academic Publishers, Springer Science+Business Media, NY NY 2400pp.
7. **Riley, D. G.** 2004. Economic injury level (EIL) and economic threshold (ET) concepts in pest management, pp 744-748. *In* J. Capinera (Ed.) *Encyclopedia of Entomology*. Kluwer Academic Publishers, Springer Science+Business Media, NY NY 2400pp.
8. Cranshaw, W., E. Grafius, TX Liu, B. Nault and **D. Riley**. 2005. Onions, pp189-197. *In* (R. Foster and B. Flood, Eds) "Vegetable Insect Management". Meister Media worldwide, Willoughby, Ohio. 264 pp.
9. **Riley, D. G.** 2005. Sustainable vegetable production, 6. Insect management, pp 18-22. *In* Singh et al. *Sustainable Vegetable Production*, pp 1-38. *In* R. Dris (ed) *Vegetables: Growing Environment and Mineral Nutrition*. WFL Publisher, Helsinki, Finland. 320 pp.
10. **Riley, D.**, A. Sparks, Jr., R. Srinivasan, G. Kennedy, G. Fonsah and J. Scott. 2018. Chapter 3, Thrips: Vector biology and management, pp 49-71. *In* Waqas Wakil, Gerald Brust, and Thomas Perring (eds) *Sustainable Management of Arthropod Pests of Tomato*, Elsevier Academic Press, Amsterdam, Netherlands.

#### Journal Articles – Refereed

1. **Riley, D. G.**, G. J. House and J. Van Duyn. 1987. Effect of phorate on soil arthropods and soybean productivity in a North Carolina coastal plain cropping system. *J. Entomol. Sci.* 22(4): 317-323.
2. **Riley, D. G.**, D. J. Schuster and C. S. Barfield. 1992. Sampling and dispersion of pepper weevil adults, *Anthonomus eugenii* Cano (Coleoptera: Curculionidae). *Environ. Entomol.* 21: 1013-1021.
3. **Riley, D. G.**, D. J. Schuster, and C. S. Barfield. 1992. Refined action threshold for pepper weevil adults (Coleoptera: Curculionidae) in bell peppers. *J. Econ. Entomol.* 85: 1919-1925.
4. **Riley, D. G.** and D. J. Schuster. 1992. The occurrence of *Catolaccus hunteri*, a parasitoid of *Anthonomus eugenii*, in insecticide treated bell pepper. *Southwestern Entomologist* 17(1): 71-72.
5. Berdegue, M., M. Harris, **D. Riley**, B. Villalon. 1993. Host plant resistance on pepper to pepper weevil, *Anthonomus eugenii* Cano. *Southwestern Entomologist*. 19 (3): 265-271
6. **Riley, D. G.** and D. J. Schuster. 1993. Pepper weevil adult response to colored sticky traps in pepper fields. *Southwestern Entomologist*. 19(2): 93-107.
7. Eller, F. J., R. J. Bartelt, B. S. Shasha, D. J. Schuster **D. G. Riley**, P. A. Stansly, T. F. Mueller, K. Schuler, B. Johnson, J. H. Davis and C. A. Sutherland. 1993. Aggregation pheromone for the pepper weevil, *Anthonomus eugenii* Cano (Coleoptera: Curculionidae): identification and field activity. *J. Chem. Ecol.* 20(7): 1537-1555.
8. **Riley, D. G.** 1992. A new occurrence of broad mites in peppers in the Lower Rio Grande Valley of Texas. *Subtropical Plant Science* 45: 46-48.
9. **Riley, D. G.** and E. King. 1994. Biology and management of the pepper weevil *Anthonomus eugenii* Cano (Coleoptera: Curculionidae): a review. *Entomol. Trends in Agricultural Science*. 1994(2): 109-121

10. **Riley, D. G.** 1994. Insecticide control of sweetpotato whitefly in south Texas. *Subtropical Plant Science*. 46: 45-49.
11. Ahmed, K., F. Khaliq, B. A. Malik and **D. Riley**. 1994. Use of microbial insecticides in Pakistan: special reference to control of chickpea pod borer, *Helicoverpa armigera* (Hubner). *Subtropical Plant Science* 46: 38-44.
12. **Riley, D. G.** and J. C. Palumbo. 1995. Interaction of silverleaf whitefly (Homoptera: Aleyrodidae) with cantaloupe yield. *J. Econ. Entomol.* 88:1726-1732
13. **Riley, D. G.** and J. C. Palumbo. 1995. Action thresholds for *Bemisia argentifolii* (Homoptera: Aleyrodidae) in cantaloupe. *J. Econ. Entomol.* 88:1733-1738.
14. **Riley, D. G.** 1995. Melon cultivar response to *Bemisia*. *Subtropical Plant Science*. 47:39-45
15. Tan, W., **D. G. Riley**, and D. A. Wolfenbarger. 1996. Quantification and genetic analysis of bifenthrin resistance in silverleaf whitefly *Bemisia argentifolii*. *Southwest. Entomologist* 21:265-27.
16. **Riley, D. G.**, and M. A. Ciomperlik. 1997. Regional population dynamics of whitefly (Homoptera: Aleyrodidae) and associated parasitoid (Hymenoptera: Aphelinidae). *Environ. Entomol.* 26: 1049-1055.
17. Wolfenbarger, D. A., **D. G. Riley**, G.L. Leibe, E.V. Gage, C.A. Staetz, G.A. Herzog. 1998. Response of silverleaf whitefly (Homoptera: Aleyrodidae) to bifenthrin and endosulfan by vial bioassay in Florida, Georgia and Texas. *J. Entomol. Science* 33(4): 412-420.
18. **Riley, D. G.**, J. V. Edelson, R. E. Roberts, N. Roe, M. E. Miller, G. Cuperus, and J. Anciso. 1998. Integrated pest management in cucurbit crops in south-central USA: pest status, attitudes toward IPM and a plan for implementation. *J. Extension* 36(4): 1-13. Retrieved Dec. 23, 1998 from World Wide Web: [gopher://joe.org/00/joe/1998august/a3](http://joe.org/00/joe/1998august/a3)
19. Loera-Gallardo, J., D. A. Wolfenbarger, and **D. G. Riley**. 1998. Insecticidal mixture interactions against B-strain sweetpotato whitefly (Homoptera: Aleyrodidae). *J. Entomol. Science* 33(4): 407-411.
20. Naranjo, S. E., C. C. Chu, P. C. Ellsworth, T. J. Henneberry, R. L. Nichols, **D. G. Riley**, and T. F. Watson. 1998. Action thresholds for the management of *Bemisia tabaci* (Homoptera: Aleyrodidae) in cotton. *J. Econ. Entomol.* 91:1415-1426
21. **Riley, D. G.**, W. Tan, and D. A. Wolfenbarger. 1999. Esterase isozymes associated with bifenthrin resistance in the silverleaf whitefly (Homoptera: Aleyrodidae). *J. Entomol. Science*. 34: 295-304
22. Sparks, A. N., Jr., J. R. Anciso, **D. G. Riley**, and C. Chambers. 1999. Insecticidal control of thrips on onions in south Texas: insecticide selection and application methodology. *Subtropical Plant Science*. 50: 58-62
23. Pappu, S.S., H.R. Pappu, D.B. Langston, Jr., **D.G. Riley**, and J.C. Diaz-Perez. 1999. Outbreak of Tomato yellow leaf curl virus (Family Geminiviridae) in Georgia. *Plant Dis.* 84(3), 370.
24. Pappu, S. S., Pappu, H. R., Langston, D. B., Flanders, J. T., & **Riley, D. G.** 2000. Outbreak of Tomato yellow leaf curl virus (Family Geminiviridae) in Georgia. *Plant Health Progress*, 1(1), 34.
25. **Riley, D. G.** and H Pappu. 2000. Evaluation of tactics for management of thrips - vectored tomato spotted wilt *Tospovirus* in tomato. *Plant Dis.* 84:847-852.
26. **Riley, D. G.**, W. Tan, and D. A. Wolfenbarger. 2000. Activity of enzymes associated with inheritance of bifenthrin resistance in the silverleaf whitefly, *Bemisia argentifolii*. *Southwestern Entomol.* 25: 201-211.
27. **Riley, D.**, D. Batal, and D. Wolff. 2001. Resistance in glabrous-type *Cucumis melo* L. to whiteflies (Homoptera: Aleyrodidae). *J. Entomol. Sci.* 36:46-56
28. Nava-Camberos, U., **D. G. Riley**, and M. K. Harris. 2001. Density-yield relationships and economic injury levels of *Bemisia argentifolii* (Homoptera: Aleyrodidae) in Cantaloupe. *J. Econ. Entomol.* 94: 180-189
29. Nava-Camberos, U., **D. G. Riley**, and M. K. Harris. 2001. Temperature and host plant effects on development, survival, and fecundity of *Bemisia argentifolii* (Homoptera: Aleyrodidae). *Environ. Entomol.* 30: 55-63
30. Chaisuekul, C. and **D. G. Riley**. 2001. Thrips (Thysanoptera: Thripidae) feeding response to concentrations of imidacloprid in tomato leaf tissue. *J. Entomol. Sci.* 36: 315-317.
31. **Riley, D. G.**, and W. Tan. 2002. Increased vigor in whitefly (Homoptera: Aleyrodidae) associated with bifenthrin-resistant males. *J. Entomol. Sci.* 37: 77-82.

32. Chaisuekul, C., **D. Riley**, and H. Pappu. 2003. Transmission of Tomato spotted wilt virus to tomato plants of different ages. *J. Entomol. Sci.* 38: 126-135.
33. **Riley, D. G.**, and W. Tan. 2003. Host plant effects on resistance to bifenthrin in silverleaf whitefly (Homoptera: Aleyrodidae). *J. Econ. Entomol.* 96: 1315-1321.
34. Joost, P.H. and **D. G. Riley**. 2004. Sampling techniques for thrips (Thysanoptera: Thripidae) in pre-flowering tomato. *J. Econ. Entomol.* 97: 1450-1454.
35. **Riley, D.** and H. Pappu. 2004. Tactics for Management of Thrips (Thysanoptera: Thripidae) and *Tomato Spotted Wilt Tospovirus* in Tomato. *J. Econ. Entomol.* 97:1648-1658.
36. **Riley, D.** and Weijia Tan. 2004. Reproductive vigor in *Bemisia agentifolii* (Homoptera: Aleyrodidae) associated with bifenthrin resistance. *J. Entomol. Sci.* 39:567-578.
37. Mullis, S. W., D. B. Langston Jr., R. D. Gitaitis, J. L. Sherwood, and A. C. Csinos, **D. G. Riley**, A. N. Sparks, R. L. Torrance, and M. J. Cook IV. 2004. First Report of *Vidalia* onion (*Allium cepa* L.) in Georgia Naturally Infected with *Tomato spotted wilt virus* and *Iris yellow spot virus* (family *Bunyaviridae*, genus *Tospovirus*). *Plant Dis.* 88:1285.
38. Joost, H. and **D. G. Riley**. 2005. Imidacloprid differentially effects probing and settling behavior of *Frankliniella fusca* (Hinds) and *Frankliniella occidentalis* (Pergrande) (Thysanoptera: Thripidae). *J. Econ. Entomol.* 98: 1622-1629.
39. Chaisuekul, C. and **D. G. Riley**. 2005. Host Plant, Temperature, and Photoperiod Effects on Ovipositional Preference of *Frankliniella occidentalis* and *F. fusca* (Thysanoptera: Thripidae). *J. Econ. Entomol.* 98: 2107-2113.
40. McPherson, R. M. and **D. G. Riley**. 2006. Monitoring thrips (Thysanoptera: Thripidae) presence in flue-cured tobacco using yellow sticky traps. *J. Entomol. Sci.* 41:170-178.
41. Kuhar, T. P., W. D. Hutchinson, J. Whalen, **D. G. Riley**, J. C. Meneley, H. B. Doughty, E. C. Burkness, and S. J. Wold-Burkness. 2006. Field evaluation of a novel lure for trapping seedcorn maggot adults. *Plant Health Progress* 7(1), 56. doi:10.1094/PHP-2006-0606-01-BR.
42. Chitturi, A., **D. G. Riley**, and P. H. Joost. 2006. Effect of pine pollen on settling behavior of *Frankliniella occidentalis* and *Frankliniella fusca* (Thysanoptera: Thripidae) in tomato in peanut. *Environ. Entomol.* 35:1396-1403.
43. **Riley, D. G.** 2007. Effect of imidacloprid on the settling behavior of *Frankliniella occidentalis* and *Frankliniella fusca* (Thysanoptera: Thripidae) on tomato and peanut. *J. Entomol. Sci.* 42:74-83.
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28. Fonsah, E. G., C.M. Ferrer, **D. G. Riley**, S. Sparks and David Langston. 2010. "Cost and Benefit Analysis of Tomato Spotted Wilt Virus (TSWV) Management Technology in Georgia". The Southern Agricultural Econ. Assoc. Conf. (SAEA). <http://ageconsearch.umn.edu/bitstream/56386/2/51028.pdf>
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- Adkins, S. G. Karthikeyan, T. Damayanthi, G. Kodetham, **D. G. Riley**, and R. A. Naidu. 2010. IPM CRSP project on tospoviruses and thrips vectors in South and Southeast Asia. *J Insect Sci.* 2010; 10(141): 2. Published online 2010 Oct 1. doi: 10.1673/031.010.14126
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- Srinivasan, R, S. Diffie, S. Mullis, **D.G. Riley**, R.D. Gitaitis and H.R. Pappu. 2010. Utilising *Lisiathus (Eustoma grandiflorum)* as an indicator host model system to evaluate *Iris yellow post virus* and its interactions with *Thrips tabaci*. *Journal of Insect Science* 10:120 available online: [insectscience.org/10.120](http://insectscience.org/10.120).
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2. **Riley, D.G.** and A.N. Sparks Jr. 1993. Management of the sweetpotato whitefly in the Lower Rio Grande Valley of Texas. Texas A&M Extension Bulletin B-5082, 12 pp.
3. **Riley, D. G.** and A. N. Sparks, Jr. 1995. The pepper weevil and its management, Texas Ag. Ext. Ser. L-5069 revised.
4. Norman, J., **D. Riley**, P. Stansly, P. Ellsworth, N. Toscano. 1996. Management of silverleaf whitefly: a comprehensive manual on biology, economic impact and control tactics. USDA-CSREES Bull.22 pp.
5. Adams, D. and **D. G. Riley**. 1997. Horticultural crops commercial vegetable insect control, pp. 128-154. In P. Guillebeau (ed.) 1997 Georgia Pest Control Handbook, Commercial Edition. Bull. 28. Univ. Of Georgia Coop. Ext. Service. 573 pp.
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10. Sparks, A. and **D. G. Riley**. 2001. Vegetable insects, pp. 42-47. *In P. Guillebeau (ed.) 2001 Summary of Losses from Insect Damage and Cost of Control in Georgia, Miscellaneous Publication 106 , Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 58 pp.
11. Adams, D. and **D. G. Riley**. 2001. Horticultural crops commercial vegetable insect control, pp. 159-192 *In P. Guillebeau (ed.) 2001 Georgia Pest Control Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 629 pp.
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13. Sparks, Jr., A. N. and **D. G. Riley**. 2003. Horticultural crops commercial vegetable insect control, pp. 169-218. *In P. Guillebeau (ed.) 2003 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 658 pp.
14. Sparks, Jr., A. N. and **D. G. Riley**. 2004. Horticultural crops commercial vegetable insect control, pp. 174-227. *In P. Guillebeau (ed.) 2004 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 716 pp.
15. **Riley, D.**, R. McPherson, L. Wells and S. Brown. 2005. Management of thrips vectors of TSWV, pp 24-26. *In "Tospoviruses in Solanaceae and Other Crops in The Coastal Plain of Georgia". University of Georgia CAES Research Report Number 704 November, 2005*
16. Sparks, Jr., A. N. and **D. G. Riley**. 2005. Horticultural crops commercial vegetable insect control, pp. 180-234. *In P. Guillebeau (ed.) 2005 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 661 pp.
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18. **Riley, D. G.** and A. N. Sparks Jr. 2006. Insecticide resistance management for diamondback moth in Georgia. University of Georgia Cooperative Extension Circular 899, 12 pp.
19. Sparks, Jr., A. N. and **D. G. Riley**. 2007. Horticultural crops commercial vegetable insect control, pp. 184-255. *In P. Guillebeau (ed.) 2007 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 722 pp.
20. Sparks, Jr., A. N. and **D. G. Riley**. 2008. Horticultural crops commercial vegetable insect control, pp. 225-305. *In P. Guillebeau (ed.) 2008 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 722 pp.
21. Sparks, Jr., A. N. and **D. G. Riley**. 2009. Horticultural crops commercial vegetable insect control, pp. 229-320. *In P. Guillebeau (ed.) 2009 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.* 722 pp.
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26. **Riley, D. G.**, A. “Stormy” Sparks Jr., D. Langston. 2011. Managing tomato spotted wilt in Georgia. University of Georgia CAES Extension Circular. 1002
27. **Riley, D.G.** and A.N. Sparks Jr. Insecticide resistance management: Diamondback moth in cole crops. Georgia Coop. Ext. Service. Circular 899 revised September 2011.
28. **Riley, D.**, Alton “Stormy” Sparks, Jr. and David Langston. 2011. Managing Tomato spotted wilt in tomato in Georgia. UGA Cooperative Extension Service Circular 1002.
29. Sparks, Jr., A. N. and **D. G. Riley**. 2012. Horticultural crops commercial vegetable insect control, pp. 237-322. *In* P. Guillebeau (ed.) 2012 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service. 722 pp.
30. Sparks, A.N. and D. G. Riley. 2013. Horticultural crops commercial insect control, pp 633-720. *In* Georgia Pest Management Handbook, Commercial Edition. UGA Special Bulletin 28. 848 pp.
31. **Riley, D.**, Alton “Stormy” Sparks, Jr. and Jenna Kicklighter. 2014. Cowpea curculio in southern pea. UGA Cooperative Extension Service Circular 1038.
32. Sparks, Jr., A. N. and **D. G. Riley**. 2013. Horticultural crops commercial vegetable insect control, pp. 237-322. *In* P. Guillebeau (ed.) 2013 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.
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34. Sparks, Jr., A. N. and **D. G. Riley**. 2015. Horticultural crops commercial vegetable insect control, pp. 237-322. *In* P. Guillebeau (ed.) 2015 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.
35. Sparks, Jr., A. N. and **D. G. Riley**. 2016. Horticultural crops commercial vegetable insect control, pp. 237-322. *In* P. Guillebeau (ed.) 2016 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.
36. Sparks, Jr., A. N. and **D. G. Riley**. 2017. Horticultural crops commercial vegetable insect control, pp. 237-322. *In* P. Guillebeau (ed.) 2017 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Univ. Of Georgia Coop. Ext. Service.
37. Coolong, T., Sparks., Riley, D., Culpepper, S., Hurst, W., Dutta, B., & Boyhan, G. (2017). Onion Production Guide. UGA Cooperative Extension Bulletin, 1198, 16-25.
38. **Riley**, David G., Timothy Coolong, Ronald Gitaitis, Bhabesh Dutta, Alton “Stormy” Sparks, Jr., Timothy Grey, Jason Schmidt, Esendugue Greg Fonsah, and Michael Toews. 2017. Crop Profile for Cowpeas in Georgia. UGA Extension Bulletin 1480.
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41. Riley, D. 2019. Insecticide resistance monitoring in the diamondback moth, *Plutella xylostella*, and field evaluation of nuclear polyhedrosis virus as a chemical alternative for control: 2019 University of Georgia Vegetable Extension and Research Report (Annual Publication 113-1)
42. Sparks, Jr., A. N. and **D. G. Riley**. 2020. Horticultural crops commercial vegetable insect control, pp. 309-363. *In* A. Sial, M Taylor, E. Cabrera (eds.) 2020 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Vol. I. Univ. Of Georgia Coop. Ext. Service.
43. Sparks, Jr., A. N. and **D. G. Riley**. 2021. Horticultural crops commercial vegetable insect control, pp. 303-357. *In* A. Sial, M Taylor, E. Cabrera (eds.) 2021 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Vol. I. Univ. Of Georgia Coop. Ext. Service.



44. Sparks, Jr., A. N. and **D. G. Riley**. 2022. Horticultural crops commercial vegetable insect control, pp. 304-359. In A. Sial, M Taylor, E. Cabrera (eds.) 2022 Georgia Pest Management Handbook, Commercial Edition. Spec. Bull. 28. Vol. I. Univ. Of Georgia Coop. Ext. Service

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- Riley, D.G.** 2002. Thrips threshold treatment in onion, pp 69. *In* Georgia Onion Research-Extension Report. University of Georgia, Cooperative Research-Extension Publ. No. 3-2002.
- Riley, D.G.** and Stormy Sparks. 2003. Thrips control in onions, 41-45. *In* Georgia Onion Research-Extension Report. University of Georgia, Cooperative Research-Extension Publ. No. 3-2003.
- Riley, David G.** 2003. Evaluation of insecticide treatments in cabbage 2003, pp 154-156. *In* W. T. Kelley (ed.) Georgia Vegetable Research-Extension Report 2003. University of Georgia, Cooperative Research-Extension Publ. No. 5-2003.
- Riley, David G.** 2003. Evaluation of insecticide treatments in collards 2003, pp 157-158. *In* W. T. Kelley (ed.) Georgia Vegetable Research-Extension Report 2003. University of Georgia, Cooperative Research-Extension Publ. No. 5-2003.
- Riley, D. G.** and J. Taylor. 2004. Insecticide efficacy trials in tomato, cabbage and squash, pp 205-210. *In* W. T. Kelley (ed.) Georgia Vegetable Research-Extension 2004. University of Georgia, Cooperative Research-Extension Publ. No. 5-2004.
- Riley, David G** and Alton Sparks. 2004. Report on the new situation of thrips that vector viruses in Vidalia onions, pp 54-56. *In* Georgia Onion 2004 Research-Extension Report. University of Georgia, Cooperative Research-Extension Publ. No. 3-2004.
- Sparks, A., **D. Riley**, D. Langston, R. Torrance and R. Blackley. 2004. Effect of thrips control on center rot of onions, pp 60-61. *In* Georgia Onion 2004 Research-Extension Report. University of Georgia, Cooperative Research-Extension Publ. No. 3-2004.
- Sparks, A., **D. G. Riley**, S. Diffie, R. Torrance and R. Blackley. 2004. Thrips seasonal abundance and species composition on onions, pp 62-63. *In* Georgia Onion 2004 Research-Extension Report. University of Georgia, Cooperative Research-Extension Publ. No. 3-2004.
- Riley, David G.** 2005. Evaluation of seed-corn maggot adult lure on traps, pp 36-37. *In* Georgia Onion 2005 Research-Extension Report. University of Georgia, Cooperative Research-Extension Publ. No. 3-2005.
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- Riley, David G.** 2006. Pepper leaf bioassay for insecticides for beet armyworm, 2006, pp. *In* W. T. Kelley (ed.) Georgia Vegetable Research-Extension Report 2006. University of Georgia, Cooperative Research-Extension Publ. No. 5-2006.
- Riley, D.G.** 2013. Evaluation of insecticide treatments in cabbage, 2012. University of Georgia 2013 Vegetable Research Report AP113.
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- Riley, D.G.** 2013. Evaluation of insecticide treatments in pumpkin, 2012. University of Georgia 2013 Vegetable Research Report AP113.
- Riley, D.G.** 2013. Evaluation of insecticide treatments in squash, 2013. University of Georgia 2013 Vegetable Research Report AP113.

- Riley, D.G.** 2013. Evaluation of insecticide treatments in tomato, 2013. University of Georgia 2013 Vegetable Research Report AP113.
- Riley, D.G.** 2013. Evaluation of insecticide treatments in fall tomato, 2013. University of Georgia 2013 Vegetable Research Report AP113.
- Riley, D.G.** 2014. Thrips control in onion spray trial, 2013. University of Georgia 2014 Vegetable Research Report AP114.
- Riley, D.** 2014. Insecticide resistance monitoring for the diamondback moth, *Plutella xylostella*, and Biotype B sweetpotato whitefly, *Bemisia tabaci* in Georgia. Georgia Agricultural Commodity Commission for Vegetables. 2014 Annual Report.
- Riley, D., M. Dempsey, B. Srinivasan.** 2014. Management of silverleaf whitefly, *Bemisia argentifolii*, a vector of geminiviruses – 2013 Report. Georgia Agricultural Commodity Commission for Vegetables. 2013 Annual Report.
- Riley, D.G.** 2015. Evaluation of insecticide treatments in cabbage: 2014. University of Georgia 2015 2014/2015 Vegetable Crop Variety Trial and Research Report AP115.
- Riley, D.G.** 2015. Evaluation of insecticide treatments in collards: 2014. University of Georgia 2015 2014/2015 Vegetable Crop Variety Trial and Research Report AP115.
- Riley, D.G.** 2015. Evaluation of insecticide treatments in snap beans: 2014. University of Georgia 2015 2014/2015 Vegetable Crop Variety Trial and Research Report AP115.
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- Riley, D.G.** 2015. Evaluation of insecticide treatments in squash: spring 2014. University of Georgia 2015 2014/2015 Vegetable Crop Variety Trial and Research Report AP115.
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- Riley, D.G.** 2015. Evaluation of insecticide treatments in tomato: spring 2014. University of Georgia 2015 2014/2015 Vegetable Crop Variety Trial and Research Report AP115.
- Riley, D.G.** 2015. Evaluation of insecticide treatments in tomato: fall 2014. University of Georgia 2015 2014/2015 Vegetable Crop Variety Trial and Research Report AP115.
- Riley D. Sparks A.** 2019. University of Georgia Vegetable Extension and Research Report (Annual publication 113-1). 31 Dec 2019. 20-22
- Riley, D.** 2020. Thrips control in onion spray trial: 2019 Vidalia Onion Extension and Research Report (Annual publication 114-1)
- Riley, D.** 2021. Thrips control in onion. 2021 Vidalia Onion Extension and Research Report (Annual publication 114-3)

Other printed materials (>152 total including a report to a congressional hearing committee, industry reports and the two most recent USDA IPM priorities documents listed below), an internationally recognized brochure funded by IRAC on diamondback moth resistance management and a graduate student handbook.

**Riley, D. G. (Ed.)** 2007. Pest Management Strategic Plan for Pepper in Georgia and South Carolina. 81 pp.

**Riley, D. G. (Ed.)** 2007. Pest Management Strategic Plan for Tomato in Georgia and South Carolina. 79 pp.

**Riley, D.G.** 2011. Insecticide resistance management: Diamondback moth in Cole crops. Trifold brochure.

**Riley, D.G.** 2015. Master of Plant Protection and Pest Management (MPPPM) Handbook. 23 pp.

#### **Computer Software and Web Sites:** (listed those from the last 15 years)

(1) D. Riley and H. Pappu. 2001. Thrips and Tomato Spotted Wilt Management in Tomato - A Cost Effective IPM Program <http://www.gaipm.org/vegetable/thripstswv.html>

(2) Constructed temporary web site for the Southeastern Branch of the ESA 2001 Annual Meeting.

(3) Organized contributors and purchased url for web site for thrips and tomato spotted wilt management information at <http://www.tswv.org>

- (4) Riley, D. G. 2003. A vegetable insect management web site was constructed on UGA Department of Entomology home page at <http://www.ent.uga.edu/veg/veg crops.htm> and the two following management articles along with each associated group of facts sheets were developed (see below).
- (5) Riley, D. G. and A. N. Sparks. 2005. Common Insects Associated with Cabbage and Related Cole Crops <http://www.ent.uga.edu/veg/colecrops.htm>
- (6) Sparks, A. N., Jr. and D. G. Riley. 2006. Common Insects Associated with Solanaceous Crops (Insect pest fact sheets listed under extension publications) <http://www.ent.uga.edu/veg/solanaceous.htm>
- (7) Riley et al. 2012. Organized contributors and purchased url and constructed web site for thrips and tomato spotted wilt management information at <http://www.tswwramp.org>
- (8) Toews et al. 2014. Coordinated the development of the Kudzu bug, *Megacopta cribraria*, scripted presentation for Protect U.S. [http://entnemdept.ifas.ufl.edu/hodges/ProtectUs/powerpoint\\_presentations.html](http://entnemdept.ifas.ufl.edu/hodges/ProtectUs/powerpoint_presentations.html)
- (9) Riley et al. 2015. Master of Plant Protection and Pest Management (MPPPM) <http://www.ent.uga.edu/mpppm.htm>
- (10) Blankenship, G. (2015). This Bug Wants Your Black Eyed Peas. *Georgia Public Broadcast*. Retrieved from <http://www.gpb.org/news/2015/08/14/bug-wants-your-black-eyed-peas>
- (11) Riley, D. G., Sparks, A., Dutta, B., Schmidt, J., Grey, T., Coolong, T., . . . Stribling, F. (2016). *US Vigna: A Cowpea Working Group*. Southern Pea Working Group. Retrieved from <http://www.usvigna.org/>
- (12) Robinson, A., & Riley, D. (2020). Control Options for Cowpea Curculio. VSC News. Retrieved from <https://vscnews.com/cowpea-curculio-control-options-southeast/>  
Contribution: Magazine - <https://vscnews.com/cowpea-curculio-control-options-southeast/>

**Riley, D. G.** and A. N. Sparks. 2005. Common Insects Associated with Cabbage and Related Cole Crops (**14 total insect pest fact sheets**) located at <http://www.caes.uga.edu/departments/entomology/extension/ipm-programs/CommoditiesandProjects/IPMVegCrops.html>

Sparks, A. N., Jr. and **D. G. Riley**. 2006. Common Insects Associated with Solanaceous Crops (**24 total insect pest fact sheets**) located at <http://www.caes.uga.edu/departments/entomology/extension/ipm-programs/CommoditiesandProjects/IPMVegCrops.html>

Featured Creatures <https://site.extension.uga.edu/ipm/feature-creature/> 9 articles for pepper weevil, sweet potato whitefly, green peach aphid, diamondback moth, cabbage webworm, etc. for the UGA IPM Newsletter.

**Grants Received** (Proposals listed by title and agency funding the grant with the amount, and amount participation indicated as Principal Author (Prin.) or Cooperator (Coop.) and estimated % involvement.

Totals (awarded): Total as Principal Investigator: \$ **5,353,558**  
Total grant involvement: \$ **18,374,732**

- 1990-92 - Vegetable IPM. Mycogen Corp. Funded, \$1,000. Prin.
- 1991-92 - Vegetable IPM. Various Pesticide Industries. Funded, \$49,750, Prin.
- 1991-92 - Application equipment (Berthoud sprayer) for whitefly control. VARDC. Funded, \$10,000. Coop. 50%
- 1991-92 - Canola Project. USDA Funded, \$10,000, Coop. 50%
- 1991-92 - Research on Aphids and Whiteflies. South Texas Melon Committee. Funded, \$33,846 (1 yr), Coop. 50%
- 1991-93 - Development of an Economic Threshold for Melon Aphid on Watermelon. Southern Region IPM. Funded, \$104,275. Coop. 50%
- 1992 - USDA High School Apprenticeship Program. Funded, \$2,500 over 3 months for 1 apprenticeship, Prin.
- 1992 - TAES High School Apprenticeship Program. Funded, \$1,250 over 3 months for 1 apprenticeship.
- 1992 - Projection of Population Movement & Dynamics of the Sweetpotato Whitefly. USDA-ES. Funded, \$15,000, Coop. 50%

- 1992-93 - Vegetable IPM. Various Pesticide Industries. Funded, \$45,700, Prin.
- 1992-93 - Whitefly Project. Texas Veg. Assoc. Funded, \$7,816 (1 yr). Prin.
- 1992-93 - Standardized Chemical Tests to Control Sweetpotato Whitefly. USDA-ARS-SARL. Funded, \$35,000 (1 yr), Prin.
- 1992-93 - Research on Aphids and Whiteflies. South Texas Melon Committee. Funded, \$33,846 (1 yr), Prin./Coop. 50%
- 1993 - TAES High School Apprenticeship Program. Funded, \$2,500 over 3 months for 2 apprenticeships, Prin.
- 1993-94 - Vegetable IPM. Various Pesticide Industries. Funded, \$46,100, Prin.
- 1993-94 - A multistate approach for the management of the sweetpotato whitefly@. USDA-ES. Funded, \$15,000 (1 yr). Coop. 50%
- 1993-94 - Insecticide resistance management and efficacy studies for the b-strain sweetpotato whitefly. USDA-ARS-SARL. Funded, \$35,800 (1 yr), Prin./Coop. 50%
- 1993-94 - Mechanisms of Host Plant Resistance in Melons to Whiteflies. South Texas Melon Committee. Funded, \$20,000 (1 yr), Prin./Coop. 50%
- 1993-94 - Insecticide resistance management, biological control and integrated crop management studies for the B-strain sweetpotato whitefly, subsection: Weslaco, Texas@. USDA-ARS-SARL. Funded, \$70,000 (1 yr), Prin./Coop. 50%
- 1993-94 - Evaluation of action thresholds for b-strain sweetpotato whitefly, *Bemisia argentifolii*, in cotton in the lower Rio Grande Valley of Texas. Cotton Inc. Funded, \$25,000 (1 yr), Prin.
- 1994 - TAES High School Apprenticeship Program. Funded, \$1,250 over 3 months for 1 apprenticeship, Prin.
- 1994-95 - Vegetable IPM. Various Pesticide Industries. Funded, \$12,000, Prin.
- 1994-95 - A multistate approach for the management of the sweetpotato (silverleaf) whitefly. USDA-ES. Funded, \$58,000 (1 yr), Coop. 50%
- 1994-95 - For participation in IPM workshop and assistance with IPM proposal for diamondback moth. Texas Mexico Frozen Food Council. Funded, \$1,600, Prin.
- 1994-95 - Determining an action threshold to prevent whitefly outbreaks. Cotton Inc. Funded, \$25,000 (1 yr), Prin.
- 1994-95 - Evaluation of Hymenoptera attacking *Bemisia* in Texas. USDA CSRS NCR Initiative Grants Program. Funded, \$120,000 (2 yrs), Coop. 25%
- 1994-95 - Regional Coordination and computer analysis of the sweetpotato whitefly problem. USDA-ES. Funded, \$99,942 (1 yr), Coop. 25%
- 1995 - Implementation of IPM Systems for Cucurbit Crops in S. Central USA. USDA National IPM Implementation Program. Funded, \$20,000, Prin./Coop. 50%
- 1996-97 - Vegetable Insecticide Efficacy Trials. Various Pesticide Industries including (Ciba-Geigy, Valent, Gowan, Zeneca). Funded, \$12,000, Prin.
- 1997-98 - Vegetable Insecticide Efficacy Trials. Various Pesticide Industries including (Rhone Poulenc, Abbott, Merck, AgrEvo, Novartis, Elf Atochem, Uniroyal, Valent, Zeneca, Dow Elanco). Funded, \$48,800, Prin.
- 1997-98 - Management of Grasshoppers as Contaminants of Leafy Greens in Georgia. Curtice-Burns Foods. Funded, \$8,540, Prin.
- 1998-99 - Vegetable Insecticide Efficacy Trials. Various Pesticide Industries including (AgrEvo, Abbott, Novartis, Elf Atochem, Valent, Zeneca, Dow Elanco, Troy BioSciences, Rohm & Haas, Bayer, Dupont). Funded, \$61,250, Prin.
- 1998-00 - Integrated Management of Thrips and Tomato Spotted Wilt Virus in Tomato. USDA, Regional Integrated Pest Management Programs, Southern Region. Funded, \$44,255, Prin.
- 1999-00 - Evaluation of Thrips Control for Effects on Onion Bulb Size and Incidence of Disease. USDA-CSREES. Funded, \$6,000, Prin.
- 1999-00 - Evaluation of Thrips Control for Effects on Onion Bulb Size and Incidence of Disease. Vidalia Onion Committee. Funded, \$5,000, Prin.
- 1999-00 - Vegetable Insecticide Efficacy Trials. Various Pesticide Industries including (AgrEvo, Novartis, Valent, Zeneca, Dow Elanco, AmVac, Rohm&Haas, Bayer, Dupont). Funded, \$38,000, Prin.

- 2000-01 - Vegetable Insecticide Efficacy Trials@Various Pesticide Industries. (FMC, Novartis, Valent, Atochem, Uniroyal, Griffin, Rohm&Haas, Bayer, Dupont). Funded, \$22,000, Prin.
- 2000-02 - “Management of thrips and tomato spotted wilt virus epidemics in tomatoes and peanuts. USDA-SRIPM Funded, \$55,949 - Prin.
- 2001-02 - “Vegetable Insecticide Efficacy Trials” Various Pesticide Industries. (FMC, Syngenta, Dow AgroScience, Valent, Cerexagri, Uniroyal, Bayer, Dupont). Funded, \$53,000 - Prin.
- 2001-02 - “Evaluation of Thrips Control for Effects on Onion Bulb Size and Incidence of Disease”. A subsection of “Integrated Disease Management to Improve the Quality of Sweet Onions in Georgia” USDA-CSREES Special Grants. Funded, \$ 194,453 - Coop. (\$39,500 - Prin.)
- 2002-04 - David Riley, John Sherwood, Stanley Culpepper. Identification and Mitigation of Overwintering Sources of Tomato Spotted Wilt Virus Infecting Vegetable Crops. USDA-Southern Region Directors IPM Committee. \$ 64,634 {subcontract portion of NCSU proposal with George G. Kennedy, James F. Walgenbach, James W. Moyer, David W. Monks} - Prin.
- 2002-03 - Riley, D. Vegetable Insecticide Efficacy Trials. Various Pesticide Companies Including Cerexagri, Valent, Dupont, DowAgroscience, Syngenta, Bayer, FMC. \$71,000 - Prin.
- 2003-04 - Riley, D. Vegetable Insecticide Efficacy Trials. Various Pesticide Companies Including Cerexagri, Valent, Dupont, DowAgroscience, Syngenta, Bayer, FMC. \$25,500 - Prin.
- 2004-05 - David Riley, Robert McPherson, Alex Csinos, and Stanley Culpepper. Assessing the pre-season risk of thrips vectors of Tomato spotted wilt virus in Solanaceous crops. USDA-Southern Region IPM Center. \$ 27,902. - Prin.
- 2004-04 - Riley, D. Vegetable Insecticide Efficacy Trials. Various pesticide companies including BASF, Dupont, DowAgroscience, Uniroyal, Bayer, FMC. \$88,500 total - Prin.
- 2004-05 - David Riley, Robert McPherson, Alex Csinos, and Stanley Culpepper. 2004-2005. Assesing the pre-season risk of thrips vectors of Tomato spotted wilt virus in Solanaceous crops. USDA-Southern Region IPM Center. \$ 27,902. - Prin.
- 2005-05 - Riley, D. 2004-2005. Vegetable insecticide efficacy trials. Various pesticide companies including BASF, Dupont, DowAgroscience, AMVAC. \$37,000 total - Prin.
- 2005-05 - Robert McPherson, Alex Csinos, David Riley et al. Integrated Management of Thrips Borne Tospovirus. College of Agricultural and Environmental Sciences contingency funds. \$ 15,057 (\$4,000 Prin.)
- 2005-05 - D.G. Riley and S. Diffie. 2005. Preseason risk assessment of Tomato spotted wilt virus using thrips vectors and weeds around vegetable crops. Georgia Fruit and Vegetable Foundation. \$6,524. - Prin.
- 2005-05 - R. Gitaitus, J.C. Diaz-Perez, K Seebold, R. R. Walcott, D. G. Riley, D. Langston. 2005. Developing a multi-tactic pest management system for onions. USDA-Special Grants, \$50,000 (\$8,000 Prin.).
- 2005-05 - T. Kelley, D. G. Riley, et al. 2005. Crop rotation strategies for vegetable crop production in Georgia. Georgia Fruit and Vegetable Growers Association, \$8,000 Coop. 50%
- 2005-09 - N. Rayapati, D. G. Riley, and S. Atkins. 2005-2009. Integrated management of thrips-borne Tospoviruses in vegetable cropping systems in South Asia and Greater Mekong subregion. IPM CRSP \$300,000 (\$40,092 my portion subcontracted from WSU - Prin.).
- 2006-07 - David Riley, David Langston, and Stanley Culpepper. 2006-2007. Development of a pest management strategic plan for tomato and pepper for Georgia and South Carolina in preparation for RAMP. USDA-Southern Region IPM Center. \$ 15,000. - Prin.
- 2006-07 - David Riley et al. 2006-2007. Integrated Management of Thrips Borne Tospovirus. College of Agricultural and Environmental Sciences contingency funds. \$ 10,500. - Prin.
- 2006-06 - Riley, D. Vegetable insecticide efficacy trials. AMVAC, Dupont, Valent BioSciences, BASF, and Chemtura \$74,700 - Prin.
- 2007-08 - George Kennedy et al. Predicting and Managing Tomato Spotted Wilt Virus in Tobacco. Tobacco Education and Research Council \$439,258 (Total), \$ 221,525 (UGA subcontract), \$51,000 (UGA entomology portion, \$25,000 - Prin.).
- 2008-12 – Riley, D. et al. A Reduced Risk System for Managing Thrips and Tomato Spotted Wilt Virus in Tomato and Pepper in the Southeastern USA. USDA CSREES RAMP \$1,750,000 (Total-Prin.).

- 2007-07 - Riley, D. Vegetable insecticide efficacy trials. \$54,500. - Prin.
- 2008-08 - Riley, D. Vegetable insecticide efficacy trials. \$54,000. - Prin.
- 2008-08 - Riley, D. Biorational insecticides in squash, USDA IR4 \$10,000 Prin.
- 2009-10 - R. Srinivasan, A. Culbreath, R. Gitaitis, and D. Riley. Variation of Tomato spotted wilt virus strains in peanut fields and its implications in sustainable peanut production in the Southeastern United States, National peanut board, \$40,000.
- 2009-10 - R. Srinivasan, D. Mclean, R. Gitaitis and D. Riley. Evaluation of late season pre-harvest practices towards minimizing post-harvest losses in Vidalia onions, Vidalia onion commission, \$15,710.
- 2009-10 - D. Riley, R. Srinivasan, and A. Sparks Jr. Monitoring the population dynamics of whiteflies in Georgia's tomato ecosystems and evaluating tomato resistance to Tomato yellow leafcurl virus. Georgia Fruit and Vegetable Growers Association. \$10,000.
- 2009-10 - R. Srinivasan, R. Gitaitis, D. Riley, G.G. Kennedy, and H.R.Pappu. Weeds as reservoirs of resistance breaking TSWV isolates in tomato and pepper systems of Georgia, Southern Region IPM, USDA-CSREES. \$ 25,000.
- 2009-10 - R. Srinivasan, A. Culbreath, J. Todd, and D. Riley. Standardization of Tomato spotted wilt virus transmission to aid in screening of peanut genotypes. Georgia peanut commission. Coop. \$ 5,000.
- 2009-09 - Riley, D. Vegetable insecticide efficacy trials. \$62,000. - Prin.
- 2010-11 - R. Srinivasan, A. Culbreath, J. Todd, and D. Riley. Role of weed flora as sources of resistance-breaking Tomato Spotted Wilt virus strains and vector reservoirs in South Georgia's peanut pathosystem. National peanut board. Coop. \$ 40,000 10%
- 2010-11 - D. Riley, R. Srinivasan, and A. Sparks Jr. 2009. Monitoring the population dynamics of viruliferous whiteflies in Georgia's tomato ecosystems and evaluation of available genotypes for resistance against Tomato yellow leafcurl virus. Georgia Fruit and Vegetable Growers Association. \$ 10,000 Prin.
- 2010 - R. Srinivasan, D. Maclean, R. Gitaitis, and D. Riley. Evaluation of late season pre-harvest practices towards minimizing postharvest losses in Vidalia onions. Vidalia onion commission. 2010. \$15,710.
- 2010 - R. Srinivasan, A. Culbreath, R. Gitaitis, and D. Riley. Variation of Tomato spotted wilt virus strains in peanut fields and its implications in sustainable peanut production in the Southeastern United States. R. National peanut board. 2010. Coop. \$ 40,000 10%
- 2010 - R. Srinivasan, A. Culbreath, J. Todd, and D. Riley. Evaluation of Tomato spotted wilt virus (TSWV) resistant and susceptible peanut genotypes against thrips and TSWV. Georgia Peanut Commission. 2010, \$ 7,000.
- 2010 - R. Srinivasan, R. Gitaitis, D. Riley, and S. Adkins. Tomato yellow leaf curl virus: a rising concern in Southeastern U.S. and management options. Southern Region IPM, USDA-CSREES. 2010. Coop. \$ 25,000 10%
- 2010-10 - Riley, D. Vegetable insecticide efficacy trials. \$53,000. - Prin.
- 2011-11 - Riley, D. Vegetable insecticide efficacy trials. \$40,500. - Prin.
- 2011 - R. Srinivasan, D. Riley, and R. Gitaitis. Evaluation of biopesticides for the management of whitefly-transmitted Tomato yellow leaf curl virus in Tomato, USDA-NIFA, IR-4 EPA biopesticide registration. 2011. S20, 602.
- 2011 - R. Srinivasan, D. Riley, and S. Sparks. Whiteflies and whitefly-transmitted Tomato yellow leaf curl virus management in Tomato, GA commodity commission for vegetables. 2011. Coop. \$ 9,960 10%
- 2011 - R. Srinivasan, A. Culbreath, R. Kemerait, and D. Riley. Variation of Tomato spotted wilt virus isolates in resistant and susceptible peanut cultivars and its influence on durability of resistance and thrips sampling and Tomato spotted wilt virus detection in thrips and their usefulness as a component of Peanut risk index. National Peanut Board. 2011. Coop. \$ 80,000 10%
- 2012 - D. Riley. Insecticide resistance monitoring for the diamondback moth, *Plutella xylostella*, and biotype B sweetpotato whitefly, *Bemisia tabaci*, in Georgia, GA commodity commission for vegetables. 2011-2012. \$ 9,000.
- 2012 - D. Riley. Cowpea curculio management in southern pea and snap beans, GA commodity commission for vegetables. 2011-2012. \$ 5,000. - Prin.
- 2012-12 - Riley, D. Vegetable insecticide efficacy trials. \$60,600. - Prin.

- 2012 - R. Srinivasan, D. Riley, and R. Gitaitis. Evaluation of biopesticides for the management of whitefly-transmitted Tomato yellow leaf curl virus in Tomato. USDA-NIFA, IR-4 EPA biopesticide registration. 2012. Coop. \$19,282 10%
- 2012-2015 - R. Srinivasan, D. Riley, G. Fonsah, J. Polston, G. Vallad, A. Simmons, and B. Santos. Enhanced implementation of integrated management tactics for Tomato yellow leaf curl virus in southeastern USA. USDA-NIFA-AFRI. 2012-2015. Coop. \$410,000 25%.
- 2013-13 - Riley, D. Vegetable insecticide efficacy trials. \$43,000 - Prin.
- 2013 – **Riley, D.** Insecticide resistance monitoring for the diamondback moth, *Plutella xylostella*, and biotype B sweetpotato whitefly, *Bemisia tabaci*, in Georgia, GA commodity commission for vegetables. \$11,300. - Prin.
- 2013 - **D. Riley.** Management of whitefly, *Bemisia argentifolii*, a vector of geminiviruses. \$6,940. - Prin.
- 2013 - Noblet, R., **D. Riley**, D. Horton, M. Abney, R. Kemerait, J. Beasley, R. Srinivasan, S. Sparks, N, Hinkle, P. Brannen, and P. Roberts. IPM in southeastern agroecosystems. USDA-NIFA. 2013-2016. Coop. \$210,000 4%
- 2013 - Stocks, S. A. Hodges, J. Palumbo, and **Riley, D.** Developing new educational material for vegetable producers on high consequence pests of crops: bagrada bug (*Bagrada hilaris*), kudzu bug (*Megacoptera cribraria*), and European pepper moth (*Duponchelia fovealis*). \$50,000 (\$7,000 as Prin.)
- 2014 - **Riley, D.** Vegetable insecticide efficacy trials. \$62,000 - Prin.
- 2014 – **Riley, D.** Direct gifts from Georgia farms to support a MPPPM graduate student to study cowpea curculio, K. G. Cardin Farm - \$500, McCall Farms - \$2500, BSL Invest. - \$2500, LeHigh Farm - \$1000, total \$6,500 – Prin.
- 2014 – **Riley, D.** CAES Contingency Seed Grant Program. \$10,000 - Prin.
- 2014 – **Riley, D.** CAES Contingency equipment grant for an insect imaging station. \$35,884 – Prin.
- 2014 – **Riley, D.** Insect control projects in bell pepper/eggplant, leafy greens and squash in Georgia, GA commodity commission for vegetables. \$10,817. - Prin.
- 2015 - **Riley, D.** Vegetable insecticide efficacy trials. \$30,000 - Prin.
- 2015 – Sial et al. USDA NIFA, IPM Implementation in Agroecosystems in Georgia - Continuation, Coop. \$270,000 4%
- 2015 – **Riley, D.** Ga Commodity Comm Vegetables, Insect control projects in bell pepper/eggplant, cabbage and tomato (continued), \$10,817 Prin.
- 2015 - **Riley, D.** et al. Southern Region Ipm Center, A new IPM working group for sustainable production of southern pea, *Vigna unguiculata*, in the southern region, \$10,000 Prin.
- 2016 – **Riley, D.** USDA IR4, University of Florida, Insecticides/Cowpea Curculio on Bean, \$5000 Prin.
- 2016 - **Riley, D.** Ga Commodity Comm Vegetables, Data driven management of insecticide resistance in the diamondback moth *Plutella xylostella* in the southeastern USA, \$10,000 2016-2017
- 2016 - **Riley, D.** Ga Commodity Comm Vegetables, Bio-Rational insecticides for long-term insect control in vegetable crops, \$5,940 2016-2017
- 2016 – **Riley, D.** Vidalia Onion Committee, Evaluation of a floralkairomonelure (Thrips Lure® from AgBio Inc.) baited trap for thrips population estimates and pre-spray assessment of response to insecticide. \$8,905
- 2017-2020 - Sial et al. USDA NIFA, Implementation of Systems-based IPM Programs in Georgia Agroecosystems, \$ 570,000 (US), Role: Co-investigator of, Credit: 4% (\$22,800)
- 2017 - **Riley, D.** University of Florida, Efficacious insecticides to control soil pests on sweet potato, \$12,000 2017-2018
- 2017 - **Riley, D.** Syngenta Crop Protection, Inc, Syngenta A-9, \$11,700 2017-2018
- 2017 – **Riley, D.** Other contract vegetable insecticide efficacy work \$33,000
- 2017 – **Riley, D.** Continued insecticide resistance monitoring in the diamondback moth *Plutella xylostella* and field evaluation of Nuclear polyhedrosis virus as a chemical alternative for control, GA Commodity Comm Vegetables, \$ 10,817 (US), Prin. 100%

- 2017 – Riley, D. Evaluation of GMO cowpea as a trap for the control of cowpea curculio in snap beans, GA Commodity Comm Vegetables, \$ 5,571 (US), Prin. 100%
- 2017 – **Riley, D.** Pepper weevil control in pepper and eggplant - multiple approach study, GA Commodity Comm Vegetables, \$ 18,000 (US), Role: Prin. 100%
- 2018 - **Riley, D.** Vegetable insecticide efficacy trials. Multiple industry contracts with Syngenta, Valent, Dow AgroScience, Nichino, Biocontrol-CH. \$50,500 - Prin.
- 2018 – **Riley, D.** Insecticide tests in greenhouse basil and strawberry. USDA IR4 Program \$8,000 – Prin.
- 2018 – Schmidt, J. and **D. Riley.** BFP18 Eurasia/Georgia Fellow#1 (FP00014815) USDA Foreign Ag Service, Amount: \$ 43,307 (US), Co-investigator Credit: 50%
- 2018 – **Riley, D.** Pepper Weevil Management in Georgia (continued). GA Commodity Commission for Vegetable Research Program \$8,180 – Prin.
- 2018 – **Riley, D.** Quantifying Insecticide Resistance in *Plutella xylostella*, the Diamondback Moth, in Cole Crops using genetic analysis (continued). GA Commodity Commission for Vegetable Research Program \$15,000 – Prin.
- 2018 – **Riley, D.** Evaluation of GMO Cowpea as a Trap for the Control of Cowpea Curculio in Snap Beans (continued). GA Commodity Commission for Vegetable Research Program \$4,280 – Prin.
- 2018-2020 – **Riley, D.,** D. Champagne, A. Sparks, H. Smith. A Multi-State Approach to Quantifying and Managing Insecticide Resistance in *Plutella xylostella*, the Diamondback Moth, in Cole Crops. USDA Crop Protection and Pest Management Competitive Grants Program. \$322,032 - Prin.
- 2019 – **Riley, D.** Monitoring insecticide resistance in *Plutella xylostella*, the diamondback moth, in Cole crops and developing more genetic analysis tools to identify mechanisms (continued), GA Commodity Comm Vegetables, \$ 13,000 (US), Prin. 100%
- 2019 – **Riley, D.** Whitefly insecticide resistance monitoring (new) GA Commodity Comm Vegetables, Amount: \$ 8,600 (US), Prin.100%
- 2019 – **Riley, D.** Pepper Weevil Management in Georgia (Continued) GA Commodity Comm Vegetables, \$ 8,180 (US), Prin. 80%
- 2019 – **Riley, D.** Syngenta Service Order A-19, Syngenta Crop Protection, INC, NA, \$ 10,000 (US), Prin. 100%
- 2019 - **Riley, D.** Vegetable insecticide efficacy trials. Multiple industry agreements with Corteva, Valent, Adama, Nichino, Vestaron. \$37,000 - Prin.
- 2020 – **Riley, D.** Performance of Insecticides for control of sweet potato soil pests IR-4 IS No. IS00027 USDA NIFA, 20000755014. \$ 15,000 (US), Prin. 100%
- 2020 – **Riley, D.** Control studies on the diamondback moth, silverleaf whitefly, pepper weevil and cowpea curculio in laboratory and field tests. GA Commodity Comm Vegetables, \$27,000 (US), Prin. 100%
- 2020 - **Riley, D.** Vegetable insecticide efficacy trials. Multiple industry contracts with Andermatt USA, Syngenta, Corteva, FMC. \$32,000 - Prin.
- 2021 - **Riley, D.** Vegetable insecticide efficacy trials. Multiple industry contracts with AgBitech, RNAissance, BT Now, Nichino. \$46,000 - Prin.
- 2020-2023 - Champagne, D., **D. Riley,** A. Sparks, H. Smith. Molecular basis of insecticide resistance in the Diamondback moth, *Plutella xylostella*, (Lepidoptera: Plutellidae) in Georgia and Florida, USA. (FP00021439) USDA NIFA, 20207000633017, \$ 323,834 (US), Credit: 25% \$80,959
- 2021 – **Riley, D.** Host plant resistance to the diamondback moth in laboratory and field tests. GA Commodity Comm Vegetables, \$19,818 (US), Prin. 100%
- 2019-2024 – Moore, A., R. Srinivasan, A. Sparks, A. Ribeiro Da, B. Dutta, B. Hunt, C. McGregor, **D. Riley,** J. Schmidt, M. Toews, P. Severns, P. Roberts, S. Bag, and P. Moore. 2019. Managing Whiteflies and Whitefly-transmitted Viruses in Vegetable Crops in the Southeastern U.S. USDA-Agreement \$ \$10,471,633 - Team, Subsection: Insecticide resistance management in whitefly \$473,900 – Prin.
- 2022 - **Riley, D.** Vegetable insecticide efficacy trials. Multiple industry contracts with AgBitech, Syngenta, Bayer, Vestaron. \$71,000 - Prin.
- 2022 – **Riley, D.** Insecticide bioassays for diamondback moth, whiteflies and pepper weevil. GA Commodity Comm Vegetables, \$18,884 (US), Prin. 100%



**Convention Papers** (Professional meetings attended, papers given at meetings, and lectures given to professional groups. Example titles are selected from those presented since the last promotion).

**Totals:** (Invited 41 nat./int. + 59 reg. + 63 loc. = 163, Submitted 81 nat./int. + 128 reg. + 18 loc. = 227) **390**

### **Invitational Papers and Posters Presented**

#### **National and International Level Meetings/Symposia/Conferences (total - 42, 21 examples given)**

- Riley, D.G.**, H.P. Joost, and C. Chaisuekul. 2004. *Frankliniella* thrips feeding and life table studies in tomatoes. International Symposium on Tomato Diseases, Grosvenor Resort in Orlando, FL.
- Riley, D.G.** 2005. Epidemiology of tomato spotted wilt virus in vegetables relative to thrips population dynamics. VIII International Symposium on Thysanoptera and Tospoviruses, Asilomar Conference Grounds, Pacific Grove, CA. (State-of-the-Art Speaker)
- Riley, D. G.**, Georgia Kennedy, James Walgenbach, Stephen M. Olson, J. Powell Smith, Ron Gitaitis, James Moyer, Greg Fonsah, Jay W. Scott, Alton ‘Stormy’ Sparks, Jr., Mark Abney, David Langston, Frank Louws, Christopher Gunter. 2009. A reduced-risk system for managing thrips and TSWV in tomato and pepper. IX International Symposium on Thysanoptera and Tospoviruses. Sea World Resort. Queensland, Australia.
- Riley, David G.** 2009. A risk model for thrips-vectoring tomato spotted wilt virus. The 57<sup>th</sup> Annual Meeting of the Entomological Society of America, Indianapolis, Indiana.
- Riley, D. G.** 2010. Thrips Pest Management in Vegetables. DuPont Cyazypyr™ Thrips Summit, Dupont Crop Protection, San Diego, CA.
- Riley, D. G.** 2011. Thrips vector management and its relationship to Tospovirus disease progress. Joint Meeting of the Entomological Society of America-SEB and the American Phytopathological Society – Caribbean Division. San Juan, Puerto Rico.
- Riley, D. G.** 2011. Insecticide resistance management in Georgia cole crops. Joint Meeting of the Entomological Society of America-SEB and the American Phytopathological Society – Caribbean Division. San Juan, Puerto Rico.
- Srinivasan, R., A. Shrestha, **D. Riley**, and A. Culbreath. 2012. Direct and indirect effects of a Tospovirus on the behavior and biology of *Frankliniella fusca*, a Tospovirus vector. XXIV International Congress of Entomology. Daegu, Korea.
- Srinivasan, R., A. Shrestha, **D. Riley**, and A. Culbreath. 2013. Facets of Tomato spotted wilt virus transmission by tobacco thrips, *Frankliniella fusca*. The XIIth International Symposium on Plant Virus Epidemiology. Arusha, Tanzania.
- Srinivasan, R., A. Barman, **D. Riley**, and S. Adkins. 2013. The influence of Tomato yellow leaf curl virus-resistant genotypes on acquisition and transmission of TYLCV and their potential impact on epidemics and management of TYLCV in southeastern USA. First International Whitefly Symposium. Kolymbari, Greece.
- Riley, D. G.** and A. N. Sparks. 2013. Vegetable Insect Pests in Georgia: Current Status, Recent and Future Challenges. The 61<sup>st</sup> Annual Meeting of the Entomological Society of America, Austin, TX.
- Riley, D. G.**, & Sparks, A. 2016. The cowpea curculio, *Chalchodermus aeneus*, historical pest status, potential for spread, and current management. In XXV International Congress of Entomology (ICE) jointly with the 64th Annual Meeting of the Entomological Society of America. Orlando, FL.
- Riley, D. G.**, D. Champagne and A. N. Sparks, Jr. 2018. Diamondback Moth Project - Genetic basis of Insecticide Resistance in *Plutella xylostella*. Insecticide Resistance Action Committee – US Meeting, Vancouver BC Canada.
- Riley, D. G.** and A. N. Sparks, Jr. 2018. Recent outbreaks of diamondback moth insecticide resistance in the southeast United States and the IRM response. The 2018 ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada.

- Sparks, A. and **D. G. Riley**. 2018. Recent experiences with pepper weevil in southern Georgia. 24th International Pepper Conference Ft. Myers, FL
- Riley, D.**, Perier, J., & Sparks, T. 2020. The role of insecticide resistance in the management of whiteflies in multiple cropping systems. Annual Meeting of the Entomological Society of America. virtual online.
- Sparks, Jr., Alton N., **David G. Riley**. 2021. Development of a baculovirus for diamondback moth management in Georgia. Annual Meeting of the Entomological Society of Am., Denver, CO.
- Riley, David G.**, Jermaine D. Perier, Paulo S. Gimenez. 2021. Whitefly insecticide resistance research in Georgia. Annual Meeting of the Entomological Society of America (ESA), Denver, CO.
- Gimenez, Paulo S., **David G. Riley**, Jermaine D. Perier, 2022. Prediction of insecticide field efficacy and other IRM studies on whiteflies in Georgia. ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada.
- Riley, D.**, Paula G. Marçon, & W. Brown. 2022. Recent baculovirus and cabbage host plant resistance studies for the management of diamondback moth in Georgia. ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada.
- Furuya, Amanda M, **David Riley**, and Hugh Smith. 2023. Management of Diamondback Moth in Florida and Georgia, USA. 9<sup>th</sup> International Conference on Management of the Diamondback Moth and other Crucifer Insect Pests. May 2-5, 2023, Phnom Penh, Cambodia.

**Regional and State Level Meetings/Symposia/Conferences (total - 59, 20 examples given)**

- Riley, D. G.** 2009. A reduced risk system for managing thrips and TSWV in tomato and pepper. South Eastern Regional Fruit and Vegetable Conference. Savannah, GA
- Riley, D. G.** 2010. Studies on thrips control and host plant resistance for managing tomato spotted wilt in tomato and pepper. South Eastern Regional Fruit and Vegetable Conference, Georgia Fruit and Vegetable Growers Association. Savannah, GA.
- Riley, D. G.** 2010. A reduced risk system for managing thrips and tomato spotted wilt virus in tomato. 25th Annual South East Vegetable & Fruit Expo, NC Vegetable Growers Association and SC Fruit Vegetable and Specialty Crop Association. Myrtle Beach, SC.
- Riley, D. G.** 2010. Resistance management and control of the diamondback moth. 25th Annual South East Vegetable & Fruit Expo, NC Vegetable Growers Association and SC Fruit Vegetable and Specialty Crop Association. Myrtle Beach, SC.
- Riley, D. G.** 2010. IPM techniques for crop management. Southern States Cooperative, Southern States Grow Master Program. Perry, GA.
- Riley, D. G.** 2011. Management of thrips-transmitted TSWV: The long and winding road. Georgia Entomological Society Annual Meeting. Lake Blackshear-Cordele, GA
- Riley, D. G.** 2012. European pepper moth, the most recent insect invasion into Georgia vegetable crops. Georgia Entomological Society Annual Meeting. Statesboro, GA
- Fonsah, E. G., S. N. Awondo, **D. Riley** and M. Abney. 2012. Producers' Survey Results of TSWV on tomatoes and peppers in the Southeast Region of the United States, S.E Regional Fruit and Vegetable Growers Conference. Savannah, GA
- Riley, D. G.** 2013. Current status of thrips in tomato and onions fields of Georgia. Annual Meeting of the Florida Entomological Society, Naples, FL
- Riley, D. G.** 2014. Management of the Cowpea Curculio, *Chalcodermus aeneus*, in Southern Pea. Fresh Frozen Foods, Inc and associated southeastern pea processors. Charleston, SC.
- Riley, D. G.** 2014. 2014 - GES Founder Richard B. Chalfant. (Founders' Award lecture) Georgia Entomological Society Annual Meeting, Valdosta, GA.
- Riley, D.G.** 2015. Cowpea curculio biology and management, Alabama Fruit and Vegetable Growers Conference. Opelika, AL.
- Riley, D.G.** 2015. Current status of insect pest management in tomato in Georgia, 30<sup>th</sup> Annual Southeast Vegetable & Fruit Expo. Myrtle Beach, SC.

- Riley, D.G.** 2015. Insect pest management in tomato and cowpea curculio management: In Georgia. USDA Vegetable Laboratory Invited Seminar. Charleston, SC.
- Riley, D.G.** 2016. Management of pepper weevil, thrips, and diamondback moth in the Southeastern USA. Invited Seminar. University of California Entomology Seminar. Salinas, CA.
- Riley, D. G.** 2017. Cowpea curculio biology and management. South Eastern Regional Fruit and Vegetable Conference. Savannah, GA.
- Riley, D.** 2018. Results of research funded for insect management in vegetable crops. S.E Regional Fruit and Vegetable Growers Conference. Savannah, GA
- Riley, D.** 2020. Insecticide Efficacy and Resistance Monitoring in Whiteflies. In Southeast Regional Fruit and Vegetable Conference. Savannah, GA
- Riley, D.** 2021. Insecticide Resistance in the Diamondback Moth and the IRM Response in the Southeast. Southern IPM Center IPM Hour presentation March 3.
- Riley, D.** 2022. Managing diamondback moth and whiteflies in Georgia. Vegetable Growers' Association of New Jersey Annual Meeting, Feb. 9.
- Riley, D.** 2023. Management of the Diamondback Moth in Cole Crops in Georgia. 42nd Annual Long Island Agricultural Forum, Cornell Coop. Extension, Suffolk Co., Riverhead, NY Jan. 11
- Perier, J.D., **Riley, D.G.**, Simmons, A.M., Shapiro-Ilan, D. I., and Toews, M.D. (2023). Whiteflies, insecticides, and host plants, characterizing insecticide resistance for *Bemisia tabaci* management. Florida Entomological Soc. Jupiter Beach Resort and Spa, Jupiter, FL. Aug. 1.

**Local Level Meetings/Symposia/Conferences (total - 64, 16 examples given)**

- Riley, D. G.** 2006. Recent developments in vegetable entomological research. Chapter Sigma Xi.
- Riley, David G.** 2008. Host plant resistance and insect control. Georgia Vegetable Extension-Research Update. Tifton, GA
- Riley, D.** 2010. Recent advances in thrips research in Georgia. University of Florida Department of Entomology and Nematology invited departmental seminar. Gainesville, FL
- Riley, D.** 2011. Insecticide and insect update for vegetables. Tombs County Pest Management Workshop, Reidsville, GA
- Riley, D.** 2012. Cyazypyr in vegetables in Georgia. Dupont regional workshop, Tifton, GA.
- Riley, D. G.** 2014. Whitefly management in fall vegetable crops in Georgia. Dupont – Sponsored Grower Meeting. Tifton, GA.
- Riley, D. G.** 2014. Use of Diamide insecticides in vegetable crops in Georgia Dupont – Sponsored Grower Meeting. Tifton, GA.
- Toews, M. and **D. Riley** (presenter). 2014. *Megacopta cribraria* (Heteroptera: Plataspidae) the “Kudzu Bug”. ProtectUS workshop. Wimauma, FL.
- Riley, D. G.** 2016. Insect Control in Vegetables. Georgia Plant Food Educational Society Winter Meeting – Pesticide Training. Tifton, GA.
- Riley, D. G.** 2016. Management of the diamondback moth (DBM) in the Southeastern USA. Dupont – sponsored industry meeting. Dupont Plant, Valdosta, GA (invited talk Dec. 12).
- Riley, D. G.** 2017. Diamondback moth insecticide resistance monitoring and management in Georgia. Georgia Cooperative Extension Service – DBM Workshop. Moultrie, GA.
- Riley, D.** 2018. Vegetable insect pest management. Guest lecture and laboratory in M. Maw's undergraduate HORT 3033 Fruit & Vegetable Production class at Abraham Baldwin Agricultural College, Tifton, GA
- Riley, D.** 2020. UGA Department of Entomology, Abraham Baldwin Agricultural College, Tifton, GA
- Riley, D.** 2020. Insect control in vegetable crops. In Georgia Plant Food Educational Soc. Tifton, GA
- Riley, D.** 2020. Whitefly insecticide resistance management. In UGA Cooperative Extension Service online meeting
- Riley, D.** 2021. Current research on diamondback moth, whiteflies and other vegetable pests in Georgia. UGA Cooperative Extension Service in-person/online meeting, NESPAL, Dec. 3

- Riley, D., & Cremonez, P.** 2022. Status of insecticide resistance in whitefly. In *UGA-ANR Training on "Management of Whitefly and Whitefly transmitted Viruses in Vegetables"*. NESPAL, Tifton, GA School/College.
- Riley, D.** 2022. Whitefly insecticide resistance research in Georgia. In *UGA Whitefly Workshop*. Tifton, GA School/College

### Papers Submitted and Posters Presented (through 2022)

#### National and International Level Meetings/Symposia/Conferences (total - 88, 26 examples given)

- Riley, D. G.**, Georgia Kennedy, James Walgenbach, Stephen M. Olson, J. Powell Smith, Ron Gitaitis, James Moyer, Greg Fonsah, Jay W. Scott, Alton ‘Stormy’ Sparks, Jr., Mark Abney, David Langston, Frank Louws, Christopher Gunter. 2009. A reduced-risk system for managing thrips and TSWV in tomato and pepper. IX International Symposium on Thysanoptera and Tospoviruses. Sea World Resort. Queensland, Australia.
- Sparks, Jr., Alton, **D. Riley**, and D. Langston. 2009. Chemical and cultural management practices for thrips and Tomato spotted wilt virus in Georgia, USA. IX International Symposium on Thysanoptera and Tospoviruses. Sea World Resort. Queensland, Australia.
- Riley, D. G.** 2009. Pine pollen deposition effects on reproduction of *Frankliniella* spp. IX International Symposium on Thysanoptera and Tospoviruses. Sea World Resort. Queensland, Australia.
- Riley, D. G.** and Shimat Joseph. 2010. Thrips vector populations relative to tospovirus incidence in tomato. The 58th Annual Meeting of the Entomological Society of America, San Diego, CA.
- Srinivasan, R., A. Shrestha, S. Sundaraj, A. Culbreath, H. Pappu, and **D. Riley**. Tomato spotted wilt virus (TSWV)-resistant peanut genotypes and their interactions with thrips and TSWV. American Phytopathology Society annual meeting, August 04-08, 2012, Providence, Rhode Island.
- Riley, D. G.** 2012. Mitigation of thrips – transmitted Tomato spotted wilt virus in tomato. The 60th Annual Meeting of the Entomological Society of America, Knoxville, TN.
- Riley, D. G.**, C. Gunter, G.G. Kennedy, J.P. Smith, M.R. Abney, A.N. Sparks, J.F. Walgenbach, S. Olson, J.W. Scott, D. Langston, J. Moyer, E. G. Fonsah, R. Gitaitis, and F. Louws. 2012. Managing thrips and *Tomato spotted wilt virus* in tomato and pepper in the southeastern United States. The 60<sup>th</sup> Annual Meeting of the Entomological Society of Am., Knoxville, TN.
- Riley, D. G.** Recent developments in weevil (Coleoptera: Curculionidae) IPM in high value vegetables in the southeastern U.S. The 62<sup>nd</sup> Annual Meeting of the Entomological Society of America, Portland, OR.
- Dempsey, M., **D. Riley** and R. Srinivasan. Integrated management of *Bemisia tabaci* and Tomato yellow leaf curl virus in tomatoes in Georgia. The 62<sup>nd</sup> Annual Meeting of the Entomological Society of America, Portland, OR.
- Sparks, A., **D. Riley**, and J. Kicklighter. Potential use of post-harvest insecticide applications for management of cowpea curculio (*Chalcodermus aeneus*) in southern peas. The 62<sup>nd</sup> Annual Meeting of the Entomological Society of America, Portland, OR.
- Sparks, A., and **D. Riley**. Efficacy of post-harvest soil applied insecticide for management of cowpea curculio, *Chalcodermus aeneus*, in southern pea. The 63<sup>rd</sup> Annual Meeting of the Entomological Society of America, Minneapolis, MN.
- Sparks, A. and **D. G. Riley**. 2018. Recent pepper weevil, *Anthonomus eugeni*, outbreaks and management in Georgia. Poster at the 2018 ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada
- Riley, D.**, Champagne, D., Dunn, T., & Bennett, J. 2019. Mechanisms of insecticide resistance in diamondback moth, *Plutella xylostella*. Annual Meeting of the Entomological Society of America.

- Bennett, J., **Riley, D.**, & Champagne, D. 2019. Insecticide resistance in diamondback moth populations in Georgia and Florida. Annual Meeting of the Entomological Society of America.
- Dunn, T., Champagne, D., & **Riley, D.** 2019. Molecular basis of insecticide resistance in diamondback moth (*Plutella xylostella*) with emphasis on diamide insecticides. Annual Meeting of the Entomological Society of America
- Smith, H., Rossitto, B., **Riley, D.**, & Sparks, A. 2019. A critical dose bioassay to assess insecticide tolerance among populations of *Bemisia tabaci* in Florida vegetable fields. Annual Meeting of the Entomological Society of America
- Sparks, T., & **Riley, D.** 2019. Comparison of toxicological assays for quantifying insecticide resistance in sweetpotato whitefly (*Bemisia tabaci*). Annual Meeting of the Entomological Society of America
- Dunn, T., Champagne, D., & **Riley, D.** 2020. Monitoring and identifying genetic contributors to diamondback moth insecticide resistance in Georgia. Poster session presented at the meeting of Annual Meeting of the Entomological Society of America.
- Sparks, T., **Riley, D.**, & Perier, J. 2020. Insecticide efficacy on *Bemisia tabaci* mortality and development in cotton. Poster session presented at the meeting of Annual Meeting of the Entomological Society of America.
- Gimenez, Paulo S., **David G. Riley**, Jermaine D. Perier. 2021. High-low dose response bioassay to predict field insecticide efficacy to whiteflies in Georgia. Annual Meeting of the Entomological Society of America, Denver, CO.
- Dunn, Thomas P., Donald Champagne, **David G. Riley**. 2021. Insecticide Resistance Mechanisms of the Diamondback Moth, *Plutella xylostella*, in Georgia and Florida populations. Annual Meeting of the Entomological Society of America, Denver, CO.
- Perier, Jermaine D., **David G. Riley**, Paulo S. Gimenez. 2021. Imidacloprid and cyantraniliprole dose-response in *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae) in Georgia. Annual Meeting of the Entomological Society of America, Denver, CO.
- Dunn, Thomas P., Donald Champagne, **David G. Riley**. 2022. Characterizing diamide insecticide resistance in diamondback moth populations from Georgia. ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada.
- Perier, Jermaine D., **David G. Riley**, Paulo S. Gimenez. 2022. Investigating the cyantraniliprole dose-response of *Bemisia tabaci* (Hemiptera: Aleyrodidae) relative to host plant effects. ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada.
- Champagne, Donald, Thomas P. Dunn, and **David G. Riley**. 2022. Molecular basis of insecticide resistance in the diamondback moth, *Plutella xylostella*, (Lepidoptera: Plutellidae) in Georgia, USA. ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada.
- Al Baki, Md. Abdullah, Jermaine Perier, Donald Champagne, and **David G. Riley**. 2023. Identification of cytochrome p450 genes that may contribute to imidacloprid and cyantraniliprole resistance in *Bemisia tabaci* (Hemiptera: Aleyrodidae) in Georgia, USA. Annual Meeting of the Entomological Society of America. National Harbor, Maryland. Nov. 4-9.
- Perier, J.D., **Riley, D.G.**, Simmons, A.M., Shapiro-Ilan, D. I., and Toews, M.D. (2023). Advances in managing whiteflies, from systemic to biological control. Annual Meeting of the Entomological Society of America (ESA), National Harbor, MD. Nov. 4-9.
- Dunn, T. Champagne, D., & **Riley D.** (2023). Potential Metabolic Detoxification of Diamide Insecticides in a Georgia Population of Diamondback Moth, *Plutella xylostella*. Paper presented at the Annual Meeting of the Entomological Society of America, Student Competition. *1st Place*.
- Cremonez P.S.G., and **Riley D.G.** Why is insecticide resistance management a hot topic in Southeastern vegetable crops? The UGA-Tifton Vegetable Entomology Lab's work profile. 2023 Entomological Society of America Annual Meeting, National Harbor, MD.
- Nagaoka M.M., Cremonez P.S.G., and **Riley D.G.** Effects of sublethal concentrations of pyriproxyfen and cyantraniliprole on *Bemisia tabaci* life table and nutritional profile. 2023 Entomological Society of America Annual Meeting, National Harbor, MD.

**Regional and State Level Meetings/Symposia/Conferences (total - 131, 83 examples given)**

- Riley, D. G.** 1999. Use of insecticides to suppress TSWV infection? S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D. G.** 2001. Tomato spotted wilt virus management. S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D. G.** 2002. Vegetable insect management update. UGA Cooperative Extension Service Winter School. Rock Eagle, GA.
- Riley, D. G.** and S. Sparks. 2004. Pepper weevil management and potential eradication in Georgia. S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D. G.** and S. Diffie. 2005. Thrips and Tomato spotted wilt virus in weeds. S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D. G.** and S. Diffie. 2006. Can we predicting tomato spotted wilt severity before planting? S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Diffie, S. and **D. G. Riley.** 2006. Using pre-season thrips and weed data to predict tomato spotted wilt virus incidence in vegetable fields. S.E. Reg. Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D. G.** 2007. Thrips and Tomato spotted wilt update. S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D. G.** 2008. Rynaxypyr, a novel insecticide for whitefly management. S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Schuster, D., S. Spurgeon, and **Riley, D. G.** 2008. Imidacloprid resistance monitoring and management in whitefly. S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D.** and A. Chitturi. 2008. Thrips in vegetables in India associated with Tospoviruses and specifically IYSV transmission in onion. Southeastern Branch Entomological Society of America. Wyndham Jacksonville Riverwalk Hotel, FL.
- Riley, D.** 2009. Recent developments in the management of thrips vectors in vegetables. South Eastern Branch of the Entomological Society of America. Montgomery AL.
- Riley, D. G. 2009. A reduced risk system for managing thrips and TSWV in tomato and pepper. S.E. Regional Fruit and Vegetable Conference. Savannah, GA.
- Scott, J. W., S. Olson, D.G. Riley, and W. T. Kelley. 2009. Current and future situation on TSWV resistance in tomato. S.E. Regional Fruit and Vegetable Meeting. Savannah, GA.
- Riley, D. G.** 2010. 2009 Studies on thrips control and host plant resistance for managing tomato spotted wilt in tomato and pepper. S.E. Regional Fruit and Vegetable Conference, Georgia Fruit and Vegetable Growers Association. Savannah, GA
- Riley, D.** and S. McKinney. 2010. Bioefficacy of rynaxypyr and cyazypyr in cucurbit vine crops. South Eastern Branch of the Entomological Society of America. Atlanta, GA.
- Riley, D. G.,** A. Sparks and S. Joseph. 2010. A reduced-risk system for managing thrips and TSWV in tomato and pepper. Georgia Entomological Society /SCES Annual Meeting. McCormick, SC.
- Srinivasan, R., **Riley, D. G.** and A. Sparks. 2011. Updates on whiteflies and Tomato yellow leaf curl virus research in Georgia. S.E. Regional Fruit and Vegetable Conference, Georgia Fruit and Vegetable Growers Association. Savannah, GA
- Riley, D. G.** and A.N. Sparks, Jr. 2012. Insecticide Rotation for Diamondback Moth Resistance Management, S.E Regional Fruit and Vegetable Growers Conference. Savannah, GA
- Riley, D. G.,** C. Gunter, G.G. Kennedy, J.P. Smith, M.R. Abney, A.N. Sparks, J.F. Walgenbach, S. Olson, J.W. Scott, D. Langston, J. Moyer, E. G. Fonsah, R. Gitaitis, and F. Louws. 2012. Managing thrips and Tomato spotted wilt virus in tomato and pepper in the southeastern United States. S.E Regional Fruit and Vegetable Growers Conference. Savannah, GA.
- Riley, D. G.** and A.N. Sparks, Jr. 2012. Insecticide Rotation for Diamondback Moth Resistance Management, Georgia Fruit and Vegetable Growers Association. Savannah, GA
- Riley, D. G.** 2012. Insecticide Rotations for Managing Diamondback Moth (DBM) Insecticide Resistance in Cabbage and Collards. South Eastern Branch of the Entomological Society of America. Little Rock, AR.

- Riley, D. G.** 2012. Cowpea curculio monitoring and control in southern peas. South Eastern Branch of the Entomological Society of America. Little Rock, AR.
- Riley, D. G.** 2013. Where have all the cowpeas gone? The legacy of the cowpea curculio in the South. South Eastern Branch of the Entomological Society of America. Baton Rouge, LA (Mar. 3-6).
- Riley, D. G.** 2013. Whitefly management in fall vegetable crops in Georgia. 77th Annual Meeting of Georgia Entomological Society Annual Meeting. Amicalola Falls State Park, Dawsonville, GA (Apr. 11-12).
- Shrestha, A., R. Srinivasan, **D. G. Riley**, and A. K. Culbreath. 2013. Second generation peanut genotypes resistant to thrips-transmitted Tomato spotted wilt virus exhibit tolerance rather than true resistance and differentially affect thrips fitness. 77th Annual Meeting of Georgia Entomological Society, Amicalola Falls State Park, Dawsonville, GA (Apr. 11-12).
- Srinivasan, R., **Riley, D. G.** S. Diffie, and A. Sparks. 2013. The effect of host plant resistance on acquisition and transmission of Tomato yellow leaf curl virus by whiteflies. Georgia Entomological Society Annual Meeting. Am. Falls State Park, Dawsonville, GA (Apr. 11-12).
- Kicklighter, J., C. Bowman, **D. G. Riley**. 2013. Population Dynamics and Control of the Cowpea Curculio, *Chalcodermus aeneus*. S.E Regional Fruit and Vegetable Growers Conference. Savannah, GA.
- Riley, D. G.** and A.N. Sparks, Jr. 2014. Monitoring for insecticide resistance in diamondback moth, *Plutella xylostella*, in Brassica crops, S.E Regional Fruit and Vegetable Growers Conference. Savannah, GA
- Rajagopalbabu Srinivasan, Saioa Legarrea and **David Riley**. 2014. The effects of host plant resistance on vector-virus interactions in Tomato yellow leaf curl virus pathosystem. South Eastern Branch of the Entomological Society of America. Greenville, SC (Mar. 2-5).
- Riley, D. G.** 2014. Management of the Cowpea Curculio, *Chalcodermus aeneus*, in Southern Pea. South Eastern Branch of the Entomological Society of America. Greenville, SC (Mar. 2-5).
- Kicklighter, J. and **D. G. Riley** (presenter) 2014. Management of the Cowpea Curculio, *Chalcodermus aeneus*, in southern peas. 78th Annual Meeting of Georgia Entomological Society Annual Meeting. Valdosta, GA.
- Kicklighter, J. and **D. G. Riley**. 2015. Management of the Cowpea Curculio, *Chalcodermus aeneus*, in southern peas. S.E Regional Fruit and Vegetable Growers Conference. Savannah, GA.
- Riley, D. G.** and J. Kicklighter 2015. 2014 Cowpea Curculio Sampling and Control Studies. 79th Annual Meeting of Georgia Entomological Society. Jekyll Island, GA.
- Riley, D.**, S. Sparks, M. Dempsey. 2016. Management of the sweet potato whitefly, *Bemisia tabaci*, in tomato. S.E Regional Fruit and Vegetable Growers Conf. Savannah, GA.
- Riley, D. G.**, Meredith Dempsey and Rajagopalbabu Srinivasan. 2016. How effective are insecticides for whitefly vector management in tomato? South Eastern Branch of the Entomological Society of America. Raleigh, NC (Mar. 13-16).
- Srinivasan, Rajagopalbabu, Wendy G. Marchant, Kerry M. Oliver, Bhabesh Dutta and **David Riley**. 2016. Transmission modes of a begomovirus by whiteflies and their potential impacts on epidemics. South Eastern Branch of the Entomological Society of America. Raleigh, NC (Mar. 13-16).
- Sparks, Alton and **David Riley**. 2016. Evaluation of post-harvest soil applied chlorpyrifos for management of cowpea curculio (*Chalcodermus aeneus*) - Year Two., South Eastern Branch of the Entomological Society of America. Raleigh, NC (Mar. 13-16).
- Riley, D. G.** 2016. Current threat of insecticide resistance in lepidopterous pests of cole crops in Georgia. 80th Annual Meeting of Georgia Entomological Society Annual Meeting. Callaway Gardens, Pine Mountain, GA (Apr. 6-8).
- Harty, Thomas and **D. G. Riley**. 2016. Management of overwintering populations of the Cowpea Curculio, *Chalcodermus aeneus* (Coleoptera: Curculionidae). 80th Annual Meeting of Georgia Entomological Society Annual Meeting. Callaway Gardens, Pine Mountain, GA (Apr. 6-8).

- Barwick, S., A. N. Sparks, Jr. and **D. G. Riley**. 2018. Evidence of reproductive diapause in (*Chalcodermus aenus*) the cowpea curculio. South Eastern Branch of the Entomological Society of America. Orlando, FL.
- Riley, D. G.**, and A. N. Sparks, Jr. 2018. Update on pepper weevil and cowpea curculio management in Georgia. South Eastern Branch of the Entomological Society of America. Orlando, FL.
- Riley, D. G.**, and A. N. Sparks, Jr. 2018. Update on vegetable IPM research in Georgia. 82<sup>nd</sup> Annual Meeting of Georgia Entomological Society Annual Meeting. Unicoi, Helen, GA.
- Huffman, E. and **D. G. Riley**. 2018. Update on insecticide resistance monitoring in diamondback moth. 82<sup>nd</sup> Georgia Entomological Society Annual Meeting. Unicoi, Helen, GA.
- Fonsah, E. G., Diffie, S., Srinivansan, R., & **Riley, D.** 2018. Economic Analysis for Whiteflies and Tomato Yellow Leaf Curl Virus Management Options in the Southeast USA. Poster session presented at the meeting of Southeast Regional Fruit and Vegetable Conf., Savannah, GA
- Riley, D. G.** and A. N. Sparks, Jr. 2018. Recent UGA Vegetable Entomology Research Projects. Poster at the Farm Bureau 2018 State Commodity Conference-Tifton Campus, Tifton, GA.
- Barman, A., **Riley, D.**, Sparks, A., Srinivasan, R., Roberts, P., & Toews, M. 2018. Spatial and temporal distribution of the silverleaf whitefly in south-Georgia. In Georgia Entomological Society Annual Meeting
- Fonsah, E., Chen, Y., Diffie, S., Srinivansan, R., & **Riley, D.** 2019. An Economic Assessment of Managing Whiteflies and Tomato Yellow Leaf Curl Virus. Poster session presented at the meeting of Southeast Regional Fruit and Vegetables Conference - Savannah, GA
- Riley, D.** 2019. New GMO Cowpea Provides a Possible Solution to the Cowpea Curculio (Coleoptera: Curculionidae) Crisis in Georgia. Georgia Entomological Society. Lake Blackshear, Cordele GA
- Sparks, T., & **Riley, D.** 2019. Bioassays for Insecticide Resistance Determinations in Whitefly. Georgia Entomological Society. Lake Blackshear, Cordele GA
- Sparks, A., & **Riley, D.** 2019. Recent experiences with pepper weevil in southern Georgia. SE Branch of the Entomological Society of America. Mobile AL
- Bennett, J., **Riley, D.**, & Sparks, A. 2019. Outreach efforts to manage insecticide resistance in the diamondback moth in Georgia. SE Branch of the Entomological Society of Am. Mobile AL
- Barwick, S., Sparks, A., & **Riley, D.** 2019. Does cowpea curculio enter reproductive diapause in the fall? Poster session presented at the meeting of Southeast Regional Fruit and Vegetable Conference 2019
- Barwick, S.C; **Riley, DG**; Sparks, A.N. 2019. Cowpea curculio (*Chalcodermus aenus*) emergence trap evaluations, GACAA Annual Meeting.
- Riley, D.**, & Sparks, A. 2019. Recent pepper weevil, *Anthonomus eugenii*, outbreaks and management in Georgia, USA. S.E. Regional Fruit and Vegetable Conference. Savannah, GA
- Sparks, T., & **Riley, D.** 2019. Whitefly insecticide efficacy and resistance studies in Georgia. SE Branch of the Entomological Society of America. Mobile AL
- Sparks, T., & **Riley, D.** 2019. Insecticide efficacy for whiteflies in the greenhouse. In Georgia Entomological Society. Lake Blackshear, Cordele, GA
- Sparks, A., P. Roberts, A. Barman, **D. Riley**, & M. Toews. 2019. Cross-commodity management of silverleaf whitefly in Georgia. In Georgia Farm Bureau State Commodity Conf. Tifton, GA
- Dunn, T., Bennett, J., & **Riley, D.** 2020. Monitoring and identifying genetic contributors to diamondback moth insecticide resistance in Georgia. In Southeast Regional Fruit and Vegetable Conference. Savannah, GA
- Dunn, T., D. Champagne, & **D. Riley**. 2021. Genetic contributors to diamondback moth insecticide resistance in Georgia. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference
- Riley, D.**, & A. Sparks. 2020. Pepper weevil, *Anthonomus eugenii*, insecticide efficacy in Georgia, 2019. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference



- Dunn, T., J. Bennett, & **D. Riley**. 2020. Monitoring and identifying genetic contributors to diamondback moth insecticide resistance in Georgia. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference
- Sparks, T., **D. Riley**, & J. Perier. 2021. Whole plant bioassays for determining insecticide efficacy on *Bemisia tabaci* mortality and development. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference.
- Riley, David** and Alton Sparks. 2021. Vegetable entomology research update on whiteflies, diamondback moth and pepper weevil in Georgia. SE Branch of the Entomological Society of America. Online.
- Perier, Jermaine, **David Riley** and Tanner Sparks. 2021. Surveying whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae), populations in Georgia for resistance using toxicological bioassays. SE Branch of the Entomological Society of America. Online.
- Riley, David G.**, and Paulo S. G. Cremonez. 2021. Quick bioassays to predict field insecticide efficacy against whiteflies. Farm Bureau State Commodity Conference, Tifton GA.
- Perier, Jermaine D., **David G. Riley**, and Paulo S. G. Cremonez. 2021. How effective is imidacloprid and cyantraniliprole in controlling whiteflies in Georgia? Farm Bureau State Commodity Conference, Tifton GA.
- Riley, David G.**, Jermaine D. Perier, and Paulo S. G. Cremonez. 2022. Vegetable insect control update in Georgia. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Jan. 7-8.
- Cremonez, Paulo S. G., **David G. Riley**, Jermaine D. Perier. 2022. Lab bioassays as tools for whitefly resistance management in GA. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Jan. 7-8.
- Perier, Jermaine D., **David G. Riley**, and Paulo S. G. Cremonez. 2022. Surveying imidacloprid and cyantraniliprole dose-response in whiteflies in Georgia. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Jan. 7-8.
- Dunn, Thomas P. 'Sam', Donald E. Champagne, and **David G. Riley**. 2022. A target site mutation associated with chlorantraniliprole resistance in the diamondback moth, *Plutella xylostella*, is widespread in south-Georgia and Florida populations. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Jan. 7-8.
- Jermaine Perier, **David Riley** and Paulo Cremonez. 2022. Understanding insecticide response of whiteflies to Imidacloprid and Cyantraniliprole in Georgia. SE Branch of the Entomological Society of America. San Juan, Puerto Rico Mar. 28.
- Paulo Cremonez, **David Riley** and Jermaine Perier. 2022. Correlation between lab bioassays and field trials for estimating whitefly resistance. SE Branch of the Entomological Society of America. San Juan, Puerto Rico Mar. 28.
- Riley, D.** & A. Sparks. 2022. Recent insecticide control studies of major vegetable insect pests in Georgia. Georgia Entomological Society. Jekyll Island, GA. Apr. 15.
- Perier, J. & **D. Riley**. 2022. Host plant effect on insecticide dose-response of *Bemisia tabaci* (Hemiptera: Aleyrodidae) to cyantraniliprole. Georgia Entomological Society. Jekyll Island, GA. Apr. 14.
- Nagaoka, M., Jermaine D. Perier, and Paulo S. G. Cremonez & **D. Riley**. 2023. Determination of dose-response curves of Knack® and Exirel® for *Bemisia tabaci* immatures. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Jan. 6-7.
- Dunn, T., Cremonez, P. S. G., Brown, W. S., Champagne, D., & **Riley, D.** (2023). Interaction of Bt and Baculovirus insecticides in diamondback moth control. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Jan. 6-7.
- Dunn, T., Champagne, D., **Riley, D.**, & Sparks Jr., A. N. (2023). Diamide insecticide resistance in diamondback moth and beet armyworm populations. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Jan. 6-7.

- Al Baki, Md. Abdullah, Jermaine Perier, Donald Champagne, and **David G. Riley**. 2023. Identification of several cytochrome P450s involved in the insecticide resistance to imidacloprid and cyantraniliprole of *Bemisia tabaci* (Hemiptera: Aleyrodidae) species in Georgia, USA. Annual Meeting SE Branch of the Entomological Society of America. Little Rock, AZ. Mar. 13.
- Cremonoz P.S.G., and **Riley D.G.** Traditional vs bioassay evaluations of immature *Bemisia tabaci* control: Which is the true measure of efficacy? 2023 Entomological Society of America Southeastern Branch Meeting, Little Rock, AR.
- Nagaoka M.M., Cremonoz P.S.G., and **Riley D.G.** Insecticide sublethal effects on the reproduction of the sweet potato whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae). 2023 Entomological Society of America Southeastern Branch Meeting, Little Rock, AR.
- Al Baki, Md. Abdullah, Jermaine Perier, Donald Champagne, and **David G. Riley**. 2023. Identification of several cytochrome P450s involved in the insecticide resistance to imidacloprid and cyantraniliprole of *Bemisia tabaci* (Hemiptera: Aleyrodidae) species in Georgia, USA. Annual Meeting of the Georgia Entomological Society. UNICOI State Park, Helen, GA. Apr. 20.
- Perier, J.D., Lagalante, A.F., McCarthy, E.P., Simmons, A.M., and **Riley, D.G.** 2023. Estimating the exposure of *Bemisia tabaci* (Hemiptera: Aleyrodidae) to imidacloprid and cyantraniliprole in the cotton system. Georgia Entomological Society. UNICOI State Park, Helen, GA. Apr. 20.
- Cremonoz, P. S. G., Kheirodin, A., Perier, J. D., Nagaoka, M., Parkins, A., Simmons, A. M., Schmidt, J., & **Riley, D. G.** (2023). Trichome-dependent differences in insecticide efficacy against the sweetpotato whitefly in cotton and cantaloupe crops in Georgia. Georgia Entomological Society. UNICOI State Park, Helen, GA. Apr. 20.

#### **Local Level Meetings/Symposia/Conferences (18, 3 examples given)**

- Bennett, J., **Riley, D.** 2019. Monitoring diamondback moth resistance in Georgia. Poster session presented at the meeting of University of Georgia - Tifton Centennial Celebration
- Riley, D.** 2022. Whitefly insecticide resistance research in Georgia. UGA Whitefly Workshop. Tifton, GA, Jun. 13
- Riley, D.** and P. Cremonoz. 2022. Status of insecticide resistance in whitefly. UGA-ANR Training on “Management of Whitefly and Whitefly transmitted Viruses in Vegetables”. Tifton, GA, Jul. 29
- Nagaoka, Mirela M., Paulo S. G. Cremonoz, and **David G. Riley**. 2023. Insecticide sublethal dose effects on the reproduction of the whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae). Corteva DELTA Symposium 2023, Indianapolis, IN, Aug 7-9.

#### **PUBLIC SERVICE:**

##### **Extension Publications**

See published circulars, leaflets and bulletins in publication list, also see multiple news releases, the more recent (2019) being the Washington Post in an article on cowpeas.

##### **Continuing Education Programs, Training and Workshops**

Career totals for:

- Local continuing education meetings - 7 (total est. attendance of 600)
- In-service entomology training meetings - 12 (total est. attendance 350)
- Safety training for WPS and RTK - 3 (total est. attendance 1,200)
- Statewide educational meetings - 25 (total est. attendance 3,770)
- Field day presentations - 40 (total est. attendance 2,490)
- Industry meetings - 38 (total est. attendance 2,000)

#### **CONTRIBUTIONS IN SERVICE TO SOCIETY, UNIVERSITY AND PROFESSION**

**International, National, Regional, State Society Offices Held** (last 15 years)

**Judge** ESA Excellence in IPM Award 2021 (national).

**Chair** of USDA ARS' National Program NP 304 Panel 12: IPM-Cotton 2020.

**Chair/member** of promotion and tenure review committees for UGA faculty 2012-2021

**President** Southeastern Branch of the Entomological Society of America 2016-2017.  
**Chair** of the Georgia Entomological Society Local Arrangements Committee 2016-2017.  
**Judge** ESA Professional Award - Distinguished Achievement Award in Horticultural Entomol. 2015  
**President-Elect** Southeastern Branch of the Entomological Society of America 2015.  
**Chair** of Membership Committee S.E. Branch ESA 2014-2015.  
**Voting Member** of the CAES Curriculum Committee 2012-2015  
**Voting Member** of the UGA University and CAES Councils 2011-2014  
**Chair** of Vegetable Conference at S.E. Branch ESA Meeting 2013 and 2014.  
**President.** Georgia Entomological Society 2011-2012.  
**Chair** of the Georgia Entomological Society O.I. Snapp Award Committee, 2012.  
**President-Elect/Program Chair.** Georgia Entomological Society 2010-2011.  
**Chair** of Awards Committee for Southeastern Branch of Entomol. Soc. of Am. in 2009.  
**Organizing Panel** for the IX International Symp. on Thysanoptera & Tospoviruses 2009.  
**Chair** of Formal Vegetable Conference at S.E. Branch ESA Meeting 2007.  
**Chair** of Membership for Southeastern Branch of Entomol. Soc. of Am. in 2006.  
**Session Chair** at the VIII International Symposium on Thysanoptera & Tospoviruses 2005.  
**Chair** of the Georgia Entomological Society Website Committee 2005.  
**Chair** Program Committee for the Tifton Chapter of the Sigma Xi Society 2005-2006.  
**Chair** of Formal Vegetable Conference at S.E. Branch ESA Meeting 2004.  
**Chair** of the ESA National Membership Committee 2004.  
**President** of the Tifton Chapter of the Sigma Xi Society 2002.  
**President-Elect** of the Tifton Chapter of the Sigma Xi Society 2001.  
**Chair** of the Georgia Ent. Society T. S. Bissell Award Committee for Student Competition, 2001.  
**Chair** of Local Arrangements for Southeastern Branch of Entomol. Soc. of Am. in 2001.  
**Chair** of Formal Vegetable Conference at S.E. Branch ESA Meeting 2001.  
**Chair** of the Awards Committee for the Tifton Chapter of Sigma Xi in 2001.

Frequently served as society committee member to awards, membership, audit, local arrangements, program, adhoc, and other committees at the state, regional and national levels.

### Journal Manuscript Editorships and Reviews

Served as Associate Editor for the journal *Entomologia Experimentalis et Applicata* where my load was 30-44 papers per year through my 5<sup>th</sup> year. I also have frequently served as reviewer for papers submitted to regional, national and international journals, 19 different journals in all (average 12 reviews per year, 72 over a six-year period). As an example, in a six-year period the number of reviews per journal were:

Journal of Economic Entomology - 23, Environmental Entomology - 6,  
 Entomologia Experimentalis et Applicata - 4, American Entomologist - 1,  
 Florida Entomologist - 2, Crop Protection - 4, Journal of Entomological Science - 11,  
 Plant Health Progress - 1, Biological Agriculture & Horticulture - 2,  
 Journal of Nematology - 2, Insects - 14, Peanut Science – 1, PLoS One – 1

Recently served as co-editor of Insects Special Issue "Improving Whitefly Management", MDPI, MDPI AG, St. Alban-Anlage 66 4052, Basel, Switzerland (Journal/Journal article), January 1, 2020–December 31, 2020  
 Annual Time Commitment (hrs): 100.0. Special issue co-editor (along with Dr. Alvin Simmons, USDA Charleston, SC) whose duties were to propose, organize, invite authors, and make final editorial decision on journal articles for the special issue

### Granting Agency Reviews and Panel Service

I have served as reviewer for proposals submitted to the:

Caribbean Basin Advisory Group (CBAG),  
 USDA/ARS Area-wide Pest Management Programs,  
 Binational Agricultural Research and Development (BARD) Fund,  
 USDA Small Business Innovation Research Program,

USDA Risk Avoidance and Mitigation Program Grant Program,  
USDA T-STAR Caribbean Grant Program,  
USDA CSREES North Eastern IPM Center IPM Partnership Grants Program,  
USDA NRI 51.7 Biologically Based Pest Management Program  
and others (50 proposals over six years). Invited panel member of the SARE Sponsored Sustainable Agriculture Roundtable Discussion at Statesboro, GA.

**Programs, Audits and Faculty Promotion Reviews for Other Agencies (recent)**

Selection Committee for SEWRL Entomologist SY at USDA-Tifton (Jonathan O'Hearn) 2021  
Muhammad Haseeb, Ph.D. Florida A&M promotion and tenure reviewer 2021  
Amanda Hodges, Ph.D. University of Florida promotion reviewer 2021  
Panel Chair USDA NP 304 12 IPM-Cotton programs review 2020  
Foreign Agricultural Service USDA Non-Discrimination Audit for UGA Tifton Campus 2020  
External Assessor for MPhil K.K. Lobin University of Mauritius 2019  
Dakshina Seal Ph.D. University of Florida promotion reviewer 2018