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TINA GRAY TEAGUE

Professor of Entomology
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EDUCATION

Ph.D. Entomology, Texas A&M University, College Station
M.S. Entomology, University of Arkansas, Fayetteville
B.S. Zoology, University of Arkansas, Fayetteville

PROFESSIONAL EXPERIENCE

Professor 1998, Arkansas State University
Associate Professor 1993-1998, Arkansas State University
Assistant Professor 1988-1993, Arkansas State University
Research Scientist, 1986-1988, Rio Farms, Inc., Agricultural Research Foundation, Monte Alto, Texas
(Lower Rio Grande Valley)
Research Assistant, 1983-1986, Department of Entomology, Texas A&M University
Agricultural Technician, 1979-81, Department of Entomology, University of Arkansas

PROFESSIONAL MEMBERSHIP [*Elected membership]

Entomological Society of America, Arkansas Entomological Society (President 1994-1995)
Arkansas Crop Protection Association (Sec. 1995-97, VP '98, Pres-elect '99, President '00),
Sigma Xi (President 1994-95, ASU Chapter)*, Gamma Sigma Delta*, Phi Kappa Phi*

CURRENT RESEARCH

My research focuses on insect pest management systems for cotton in the Mississippi Delta region of Arkansas. Program objectives include evaluation and development of tactics for management of cotton insect pests. The work is part of an overall production research program in Arkansas focused on attaining an economically viable and environmentally sustainable cotton industry for the state. Prior to 1995 my research at ASU focused on crop management systems for vegetable production. I worked extensively with limited resource, minority farmers in the Delta region.

TEACHING EXPERIENCE

PLSC 2323 Agricultural Chemicals (spring 1990-1996); HNRS 4333/5333 Agriculture and the Environment (1992); PLSC 4892/5892 COTMAN, A Computerized Expert System for Cotton Management (spring 1998)

MAJOR COMMITTEE & SERVICE APPOINTMENTS

Arkansas Boll Weevil Eradication Technical Advisory Committee, 1996 to 2009 (eradication completed).
Arkansas Soil and Water Education Conference – Founder and Co-chair: 1998-present
USDA-NRCS – Arkansas
Southern Extension Research Activity - Information Exchange Group 23 (Boll Weevil SERA-IEG) - Secretary 1997, Chair 1998.
Appointed by Arkansas Governor Jim Guy Tucker to the Arkansas Task Force on Food Processing and Agricultural Business, 1993-95.
Arkansas Land and Farm Development Corporation Farming Systems Board of Advisors, 1993-94.

Delta Community Development Corp. - Board of Directors of Morning Fresh, Inc. 1993-94.

PEER REVIEW PANELS

USDA SARE – Southern Region Technical Review Committee 2004-2006
USDA National Pest Management Alternative Program Review Committee, 2001
USDA SARE – Southern Region Technical Review Committee, 1993-95.
Fulbright Council for International Exchange of Scholars - Specialist Program Reviewer 2010-2012

GRADUATE THESIS COMMITTEES

Steven Coy, M.S. – Biology, 2003, Arkansas State University - Comparisons of Cotton Response to Early Season Terminal Injury from Infestations of *Lygus lineolaris* Nymphs (Hemiptera: Miridae) and Mechanical Injury. (Research Advisor)

UNDERGRADUATE THESIS COMMITTEES:

Stephen Wingard, - Biology, 2002, Arkansas State University - Bract Morphology of Cotton Genotypes and Resistance to Tarnished Plant Bug, *Lygus lineolaris* (Palisot de Beauvois) (Research Advisor)

AWARDS AND HONORS:

Partnership Award – Arkansas Land and Farm Development Corporation – Brinkley AR 1992
Baerg Outstanding MS Student Award – Department of Entomology, University of Arkansas 1980

RESEARCH GRANTS RECEIVED:

Teague, T.G., C. R. Shumway, D. K. Morris, M. L. Reba. 2013. (\$40,000). Integrating Soil and Water Conservation and Pest Management strategies for Sustainable Cotton Production. Cotton Incorporated, Raleigh, NC.

Bourland, F.M, and **T. G. Teague**, G. Studebaker. 2013 (\$27,000). Evaluation and Utilization of Resistance to Tarnished Plant Bug in Cotton. Cotton Incorporated, Raleigh, NC.

Teague, T.G., C. R. Shumway, D. K. Morris, M. L. Reba, Vories, E, Fisher, K, and J. Bouldin. 2013.(\$20,000). On-Farm Water, Soil and Plant Monitoring to Improve Cotton Sustainability. Cotton Incorporated, Raleigh, NC.

Teague, T.G. and M.L. Reba. 2013. (\$5,000). On farm validation of the Field Print Calculator in cotton. Cotton Foundation. Memphis, TN.

Daniels, Mike, Michele Reba, Dennis Busch, Andrew Sharpley, Chris Henry, Yushun Chen, Jennifer Bouldin, **Tina Gray Teague** and Dewayne Johnson. 2012. Building the capacity for edge-of-field monitoring of conservation through field demonstration, regional coordination, training and outreach. USDA Conservation Innovation Grant. 2013-2015 (Federal \$969, 295 (inkind \$969,300; Total \$1, 978, 596).

Teague, T.G., C. R. Shumway, D. K. Morris, L. Espinoza, M.L. Reba. 2012. Integrating Soil and Water Conservation and Pest Management strategies for Sustainable Cotton Production. Cotton Incorporated Core. 2012 (\$40,000).

Teague, T.G., M.L. Reba., C. Henry, E. Vories, Chris DeClerk, Robby Harpole, and Chris Culver. 2012-2015. Demonstration and validation of irrigation management tools to preserve water availability for row crop agriculture. USDA-NRCS Conservation Innovation Grant – Arkansas (\$150,000 with cash contributions from Judd Hill Foundation (\$12,000) Delta Plastics (\$10,000), ASU COAT (\$4,000) & Soybean Promotion Board (\$11,500).

Teague, T.G., C. R. Shumway, D. K. Morris, L. Espinoza, J.L. Bouldin. 2011. Integrating Soil and Water Conservation and Pest Management strategies for Sustainable Cotton Production. Cotton Incorporated Core. (\$40,000)

- Teague, T.G.,** C.R. Shumway, D. K. Morris, Bouldin, J.L. 2011-2013 Integrating Soil, Crop and Pest Monitoring Using Spatial Technology on Arkansas Cotton Farms to Achieve Nutrient Loss Reduction. USDA-NRCS, Conservation Innovation Grant. (\$184,214)
- Teague, T.G.,** F.M. Bourland, J. Bouldin, S. Green, C. Shumway, K. Morris, M. Mozaffari, C. Rothrock, L.L. Nalley, 2011. Integrating Soil and Plant Monitoring to Improve Soil & Water Conservation for Sustainable Cotton Production 2011-12 (\$60,000)
- Bouldin, J.L., **Teague, T.G.,** Reba, M., Warby, R.A.F. 2011-2013. Arkansas Natural Resources Commission. Little River Ditches Watershed Monitoring -- (\$222,928)
- Teague, T.G.,** S. Green, J. Bouldin, C. Shumway. 2010. Integrating Soil and Water Conservation and Pest Management strategies for Sustainable Cotton Production. Cotton Incorporated Core. (\$40,000)
- Teague, T.G.,** F.M. Bourland, J. Bouldin, S. Green, C. Shumway, K. Morris, M. Mozaffari, C. Rothrock, L.L. Nalley, 2010. Integrating Soil and Plant Monitoring to Improve Soil & Water Conservation for Sustainable Cotton Production 2010-2012 \$120,000
- Northeast Arkansas Conservation Districts, Charles Glover, President [awardee] with writing team R. Cripps, **T.G. Teague,** J. L.Bouldin, 2011-2014. (\$3,093,614). USDA NRCS CCPI: Mississippi River Basin Healthy Watershed Initiative (MRBI) Project: Little River Ditches Nutrient Loss Reduction Project. Funded (all funds go to NEA producers).
- Northeast Arkansas Conservation Districts, Charles Glover, President [awardee] with writing team R. Cripps, **T.G. Teague,** J. L.Bouldin. 2011-2014. (\$2,908,836). USDA NRCS CCPI: Mississippi River Basin Healthy Watershed Initiative (MRBI) Project: Lower St. Francis Nutrient Loss Reduction Project. (all funds go to NEA producers)
- Bourland, F.M., D. Studebaker and **T.G. Teague.** 2009-2012. Evaluation and utilization of resistance to tarnished plant bug in cotton. Cotton Incorporated National Core Fund. \$96,000.
- Teague, T.G.,** S. Green, J. Bouldin, C. Shumway. 2009. Integrating Soil and Water Conservation and Pest Management strategies for Sustainable Cotton Production. Cotton Incorporated Core. (\$40,000)
- Teague, T.G.,** S. Green, J. Bouldin, C. Shumway. 2008. Cotton Incorporated Core. Integrating Soil and Water Conservation and Pest Management strategies for Sustainable Cotton Production. (\$40,000)
- Teague, T.G.** 2007-2009. Interactions of Irrigation and Insect Pests: Crop Vigor and Compensation Following Stress (\$26,544 /year for 3 years).
- Teague., T. G.** 2006. Validation of the COTMAN Termination Rules for Irrigation: Cotton Incorporated Core. \$15,000 (1 yr)
- Bourland, F.M., D. Studebaker and **T.G. Teague.** 2006-2008. Evaluation and utilization of resistance to tarnished plant bug in cotton. Cotton Incorporated National Core Fund. \$71,000 (3 yr).
- Teague, T.G.** Using crop maturity measures to time final furrow irrigation in cotton. Judd Hill Foundation \$10,000 (1 yr).
- Steinkraus, Don and **T.G. Teague.** 2005. Trap crops and biopesticides for tarnished plant bug control to reduce reliance on organophosphate insecticides in Midsouth cotton. USDA – Pest Management Alternatives Program. \$111,373 (2 yr).
- Vories, Earl, **T. G. Teague,** Jeremy Greene, William Robertson, Phil Tacker, Ernie Clawson, Bobby Phipps, Chris Sansone, Tommy Doederlein, Lyle Pringle. 2005. Determining the Optimum Timing for the Final Furrow Irrigation on Cotton Based on Crop Monitoring. Cotton Incorporated National Core Fund. \$7,000 (1yr)
- T. G. Teague ,** Mark Cochran , Diana Danforth, Scott Stiles , Jason Stewart , Earl Vories, Randy Luttrell. 2004. Interactions of Irrigation and Insect Pests: Late Season Crop Susceptibility to Plant Bugs and Stink Bugs in High-Yielding Cotton Production Systems. Cotton Incorporated Arkansas State Support Committee \$59,469 (3 yr)
- T. G. Teague,** D. M. Oosterhuis, D. M. Danforth, Scott Stiles. 2003. Crop stress indices, system management style and cultivar control for fiber quality and yield stability. Cotton Incorporated Arkansas State Support Committee \$42,000 (3 yr)
- T. G. Teague.** 2002. Validation of the break-even shed rate component of COTMAN: Cotton Incorporated National Core Fund. \$22,500 (3 yr)

- T. G. Teague.** 2002. Validation of the COTMAN Insecticide Termination Decision Rule. Cotton Incorporated National Core Fund \$15,800 (3 yr)
- T. G. Teague,** D. M. Oosterhuis, and D. M. Danforth. 2002. A New Crop Monitoring Indicator of Pending Stress in Cotton. Cotton Incorporated Arkansas State Support Committee \$10,000 (1 yr)
- R. G. Luttrell and **T. G. Teague.** 2002. Large Farm Variability in COTMAN and Cotton Insect Management Records: A Foundation for Community-Wide Management Systems. Cotton Incorporated National Core Fund \$54,000 (3 yr).
- N.P. Tugwell, D. M. Oosterhuis, **T. G. Teague** and D. M. Danforth. 2001. A New Crop Monitoring Indicator of Pending Stress in Cotton. Cotton Incorporated Arkansas State Support Committee \$10,000 (1 yr)
- N.P. Tugwell, and **T. G. Teague.** 2001. Validation of the break-even shed rate component of COTMAN: Arkansas. Cotton Incorporated National Core Fund. \$17,500 (1 yr)
- N.P. Tugwell, D. M. Oosterhuis, **T. G. Teague** and D. M. Danforth. 2000. A New Crop Monitoring Indicator of Pending Stress in Cotton. Cotton Incorporated Arkansas State Support Committee \$10,000 (1 yr)
- N.P. Tugwell, D. M. Oosterhuis, **T. G. Teague** 2000. Validation of the break-even shed rate component of COTMAN: Arkansas \$3,400 (1 yr). Cotton Incorporated Core Funding.
- T. G. Teague,** N. P. Tugwell and W. C. Yearian. 1997-99. Implementation and field evaluation of alternative boll weevil eradication methodologies and technologies. Cotton Incorporated Arkansas State Support Committee \$261,800 (3 yrs.)
- Tugwell, N. P. and **T. G. Teague.** 1996. BAIT STICK: A pheromone-based tactic for use in an eradication strategy for regions with low boll weevil infestations. Cotton Incorporated. \$24,500 (1 yr)
- Teague, T. G.** 1996. Soil conservation and crop production/insect pest management in cotton - demonstrations on the Judd Hill Plantation. Judd Hill Foundation, Judd Hill, AR. \$60,000 (3 yr.).
- Dabney, S., **Teague, T. G.,** et al. 1996. Soil conservation and pest management impacts of grass hedges. United States Department of Agriculture, Sustainable Agriculture Research and Education Program, Southern Region : \$145,000 (3 yr.).
- Yearian, W. C., **Teague, T. G.,** N. P. Tugwell, D. Johnson. 1996. Identifying and mapping overwintering habitat for enhancing success of alternative tactics of boll weevil eradication. Cotton Incorporated State Support Committee. \$154,000 (1 yr).
- Teague, T. G.,** N. P. Tugwell, and D. A. Johnson. 1995. Integration of boll weevil aggregation and suppression technology into the eradication program. Cotton Incorporated - State Support Committee. \$20,000, (1 yr.).
- Teague, T. G.** (Project Coordinator) 1992. Organic soil amendments of agricultural byproducts for vegetable production systems in the Mississippi Delta Region. United States Department of Agriculture, Sustainable Agriculture Research and Education Program, Southern Region: \$140,000 (3 yr.).
- Carson, Janet, Seth Dabney, **T. G. Teague** et al. 1992. Habitat enhancement for beneficial insects in vegetable production systems. United States Department of Agriculture, Sustainable Agriculture Research and Education Program, Southern Region: \$200,000 (3 yrs).

PUBLICATIONS/PRESENTATIONS

- Mozaffari, M., T.G. Teague, N. A. Slaton, C. G. Herron, S. D. Carroll, 2012. Effect of urea and enhanced efficiency N fertilizer on seedcotton yield. pp.1370. *in:* S. Boyd, M. Huffman, B. Robertson (eds.), Proc. of the 2012 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Nalley, L.L., D.M. Danforth, Z. Niederman, T. G. Teague. 2012. A Scan level cotton carbon life cycle assessment – has bio-tech reduced the carbon emission from cotton production in the USA? accepted September 2012 to Journal of Cotton Science.

- Reba, M. L., M. Daniels, Y. Chen, A. Sharpley, J. Bouldin, T.G. Teague, P. Daniel, & C.G. Henry. A statewide water quality and water quantity monitoring network in Arkansas accepted to Journal of Soil & Water Conservation. (ARIS log number 287100)
- Reba, M.L., M. Daniels, Y. Chen, A. Sharpley, T. Teague and J. Bouldin. 2012, A network for monitoring agricultural water quantity and water quality in Arkansas, Eos, Transactions of the American Geophysical Union, Fall Meeting Supplement, Abstract H31G-1204.
- Reba, M.L., J. Bouldin, T. Teague and J. Choate. 2011, Reducing runoff and nutrient loss from agricultural land in the Lower Mississippi River Basin, Eos, Transactions of the American Geophysical Union, Fall Meeting Supplement, Abstract H41B-1021.
- Teague, T.G., L. Espinoza, C.S. Rothrock, A. Flanders, and L.A. Fowler. 2012. Nitrogen fertilizer timing and tillage – focusing management to build sustainable cotton systems. pp.100-111. *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2011, Arkansas Agricultural Experiment Station Research Series 602.
- Teague, T.G., C. Rothrock and C.R. Shumway. 2012. Cotton response to irrigation timing and use of enhanced efficiency nitrogen fertilizer and biosolids – Year II. pp.80-91. *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2011, Arkansas Agricultural Experiment Station Research Series 602.
- Teague, T.G. and K. D. Neeley. 2012. Evaluation and utilization of resistance of resistance to tarnished plant bug in cotton – Survival of nymphs on a frego bract compared to a nectariless line in field & laboratory trials. pp.808-816. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), Proc. of the 2012 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Bouldin, J. G., R.A.F. Warby, P. Yu, and T. G. Teague. 2011. Sustainable cotton production: The effects of best management practices on water, sediment and soil quality. pp 100-109. *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2010, Arkansas Agricultural Experiment Station Research Series 589.
- Luttrell, R.L., K.C. Allen, P. O’Leary, T.G. Teague. 2011. Insect infestations, crop development and evolving management approaches on a northeast Arkansas cotton farm pp.1185. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), Proc. of the 2011 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Nalley, L.L., D.M. Danforth, Z. Niederman, T. G. Teague, 2011. Has bio-tech reduced the carbon emission from cotton production in the USA? pp 25-28 *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2010, Arkansas Agricultural Experiment Station Research Series 589.
- Nalley, L.L., D.M. Danforth, Z. Niederman, T. G. Teague, David Wildy. 2011. A Scan level cotton carbon life cycle assessment – has bio-tech reduced the carbon emission from cotton production in the USA? pp. 346-347. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), Proc. of the 2011 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Raper, R. L., J. L. Snider, T. G. Teague, and S. S. Kulkarni. 2011. Effects of east Arkansas production systems on soil strength and electrical conductivity. 2011. pp 176-180. *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2010, Arkansas Agricultural Experiment Station Research Series 589.
- Teague, T.G. 2011. Irrigation Timing and Tarnished Plant Bug Management – Implications for Late Season Susceptibility to Tarnished Plant Bug and Crop Termination Decisions - Year III. pp.1186-1198. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), Proc. of the 2011 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Teague, T. G., K. Neeley, A. Flanders, and L. Fowler. 2011. Tarnished plant bug and the plant growth regulator, Mepiquat chloride – Influence on cotton fruiting dynamics and yield. 2011. pp 158-170 *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2010, Arkansas Agricultural Experiment Station Research Series 589.
- Teague, T.G. and C.R. Shumway. 2011. Cotton response to irrigation timing and use of enhanced efficiency nitrogen fertilizer and biosolids. pp.1346-1353. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), Proc. of the 2011 Beltwide Cotton Conferences, National Cotton Council, Memphis.

- Teague, T.G., J. Bouldin, C.R. Shumway, S. Green, R. Warby, K. Morris, A. Flanders. 2011. Crop Protection and Tillage – Focusing management to build sustainable cotton systems – year three pp.848-861. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), Proc. of the 2011 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Vories, E. D., J. K. Greene, T. G. Teague, J. H. Stewart, B. J. Phipps, H. C. Pringle, E. L. Clawson, R. J. Hogan, P. F. O'Leary, T. W. Griffin. 2011. Determining the optimum timing for the final furrow irrigation on mid-south cotton. *Applied Engineering in Agriculture*. 27(5): 737-745.
- Teague, T. G. and D. M. Danforth. 2010. Irrigation timing and tarnished plant bug management – Implications for late season susceptibility to tarnished plant bug and crop termination decisions- Year II. pp. 825-840. Proc. of the 2010 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Teague, T. G., J.L. Willers, F. M. Bourland, and George Milliken. 2010. Investigation of field plot size on variation in white flower anther injury associated with tarnished plant bug host plant resistance evaluations in Arkansas cotton. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), pp. 841-842. Proc. of the 2010 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Teague, T.G., V.S. Green, J.L. Bouldin, C.R. Shumway, and L. Fowler. 2010. Crop protection and tillage – focusing management to build sustainable cotton systems. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), pp. 892-904. Proc. of the 2010 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Sappington, D. R., T. R. Brueggen, J. L. Bouldin, S. Green, C. Shumway, T.G. Teague. 2010. Improving water quality with better management practices in Midsouth cotton. *in*: S. Boyd, M. Huffman, B. Robertson (eds.), pp. 622-627. Proc. of the 2010 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Vories, E.D., J.K. Greene, R. Hogan, B.J. Phipps, H.C. Pringle, J. Stewart, T.G. Teague, T. Griffin. 2010. Determining the optimum timing for the final furrow irrigation on mid-south cotton. (In review) *Applied Engineering in Agriculture* (SW-08823-2010).
- Teague, T.G., V.S. Green, J.L. Bouldin, C.R. Shumway, and L. Fowler. 2009. Tillage and pest control – Where should we focus management in building a sustainable cotton system? p 137-147 *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2008, Arkansas Agricultural Experiment Station Research Series 573.
- Teague, T. G. and F. M. Bourland 2009. Feeding Damage and Survival of Tarnished Plant Bug Nymphs in Frego Bract Compared to a Nectariless Cotton Line.*in*: S. Boyd, M. Huffman, D. A. Richter, B. Robertson (eds.), p. 768-782. Proc. of the 2009 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Teague, T. G. and D. M. Danforth. 2009. Irrigation timing and tarnished plant bug management – Implications for late season susceptibility to tarnished plant bug and crop termination decisions. *in*: S. Boyd, M. Huffman, D. A. Richter, B. Robertson (eds.), pp. 787-801. Proc. of the 2009 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Teague, T. G. 2008. Final irrigation timing 2007 – COTMAN and crop termination in Arkansas cotton. Pp 114-122 *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2007, Arkansas Agricultural Experiment Station Research Series 562.
- Teague, T.G., J. Lund, J.T. Sangepogu, F.M. Bourland. 2008. Techniques for evaluating feeding preferences of *Lygus lineolaris* in midsouth cotton. In: Goodell P.B., Ellsworth, P. C. eds. 2008. Second International Lygus Symposium, Asilomar. 27 pp. *Journal of Insect Science* 8:49, online insectscience.org/8.49.
- Teague, T. G. , J. Smith, D.M. Danforth and P.F. O'Leary. 2008. Manually applied infestations of tarnished plant bug nymphs in late season cotton to identify the final stage of crop susceptibility *in*: S. Boyd, M. Huffman, D. A. Richter, B. Robertson (eds.), pp. 1239-1250. Proc. of the 2008 Beltwide Cotton Conferences, National Cotton Council, Memphis.

- Allen, K. C., R. Luttrell, T. G. Teague, P. O'Leary, 2007. Using farm records to explain insect management strategies. *in*: S. Boyd, M. Huffman, D. Richter, B. Robertson (eds.), pp. 375-382. Proc. Beltwide Cotton Conference, National Cotton Council, Memphis, TN.
- Monge, Juan Jose, T. G. Teague, M.J. Cochran, D.M. Danforth, 2007. Economic impacts of termination timing for irrigation and plant bug control. Proc. Beltwide 2007. pp. 1396-1405. *in*: S. Boyd, M. Huffman, D. A. Richter, B. Robertson (eds.), Proc. of the 2006 Beltwide Cotton Conferences, National Cotton Council, Memphis TN.
- Monge, Juan J., T. G. Teague, Mark J. Cochran and Diana M. Danforth. 2007. Economic Impacts of termination timing for irrigation and plant bug control. Pp 161-168 *in*: Derrick M. Oosterhuis (ed), Summaries of Arkansas Cotton Research 2006, Arkansas Agricultural Experiment Station Research Series 552.
- Lund, Jennifer, T. G. Teague, T.J. Sangepogu, Donald C. Steinkraus, and Jarrod E. Leland. 2007. Control of the Tarnished Plant Bug (*Lygus lineolaris*) in Cotton Using the Entomopathogenic Fungus *Beauveria bassiana*, the Insect Growth Regulator Novaluron, and Early-Season Trap Crop Practices pp.176-183 *in*: Derrick M. Oosterhuis (ed.), Summaries of Arkansas Cotton Research 2006, Arkansas Agricultural Experiment Station Research Series 552.
- Lund, Jennifer, T. G. Teague, Donald C. Steinkraus, and Jarrod E. Leland. 2007. Control of the Tarnished Plant Bug (*Lygus lineolaris*) *in*: Mid-South Cotton Using the Entomopathogenic Fungus (*Beauveria bassiana*) and the Insect Growth Regulator Diamond®. pp. 169-175 in Derrick M. Oosterhuis (Ed), Summaries of Arkansas Cotton Research 2006, Arkansas Agricultural Experiment Station Research Series 552.
- Teague, T. G. , Jennifer Lund, Twinkle Joan Sangepogudavid, and Diana M. Danforth. 2007. COTMAN Crop Termination Timing for Insecticidal Control of Tarnished Plant Bug. pp. 106-117 *in*: S. Boyd, M. Huffman, D. Richter, B. Robertson (eds.), Proc. of the 2007 Beltwide Cotton Conferences, National Cotton Council, Memphis.
- Teague, T.G., D.M. Danforth, J. Lund. 2007. Compensation Capacity of High and Low Vigor Cotton Plants in Response to Pre-Flower Injury by Tarnished Plant Bug (Heteroptera: Miridae). World Cotton Research Congress-4, paper 2020 <http://icac.org/meetings/wcrc/wcrc4/presentations/start.htm>
- Teague, Tina Gray, David Wildy, Mukhammadzakhrah Ismanov, Jennifer Lund, Larry Hendrickson, Nick Emanuel, Jeffrey Willers, and Morteza Mozaffari. 2006. Comparison of Broadcast and Image-based, Variable Rate Application of Mepiquat Chloride on Crop Growth and Fruit Retention Using the COTMAN Crop Monitoring System – Year 2. pp.1739-1759 *in*: M. Huffman and D. A. Richter (eds.), Proc. of the 2006 Beltwide Cotton Conferences, National Cotton Council, Memphis TN.
- Teague, Tina Gray, Jennifer Lund and Diana M. Danforth. 2006. Final irrigation timing and late season crop susceptibility to tarnished plant bug (*Lygus lineolaris* Palisot de Beauvois)- using COTMAN to make crop termination decisions – Year 2. pp.1059-1072 *in*: M. Huffman and D. A. Richter, Proc. of the 2006 Beltwide Cotton Conferences, National Cotton Council, Memphis TN.
- Lund, Jennifer, T. G. Teague, D. Steinkraus, J. Leland. 2006. Control of the tarnished plant bug (*Lygus lineolaris*) in Midsouth cotton using the entomopathogenic fungi, *Beauveria bassiana*, and the insect growth regulator, Diamond®. pp.1037-1042 *in*: M. Huffman and D. A. Richter, Proc. of the 2006 Beltwide Cotton Conferences, National Cotton Council, Memphis TN.
- Luttrell, R. G., K. C. Allen, Tina Gray Teague, and P. F. O'Leary. 2006. Large farm management of cotton insects via the use of insect samples and COTMAN information. pp.1326- *in*: M. Huffman and D. A. Richter, Proc. of the 2006 Beltwide Cotton Conferences, National Cotton Council, Memphis TN.
- Vories, Earl, T. G. Teague, J. Greene, J. Stewart, E. Clawson, L. Pringle, B. Phipps and S. Hague. 2006. Determining the optimum timing for the final irrigation on MidSouth Cotton:2005. pp.516-521 *in*: M. Huffman and D. A. Richter, Proc. Beltwide Cotton Conf., National Cotton Council, Memphis TN.
- Teague, Tina Gray 2006. Final irrigation timing 2005—Using COTMAN to make crop termination decisions. pp. 113-118 *In*: D. M. Oosterhuis (ed.). Summaries of Arkansas Cotton Research in Progress, Univ. of Arkansas, Ark. Agri. Exp. Sta., Special Report 543.

- Teague, Tina Gray, Diana M. Danforth. 2005. Final irrigation timing and late season crop susceptibility to tarnished plant bug (*Lygus lineolaris* Palisot de Beauvois)- using COTMAN to make crop termination decisions. pp.1743-1753 in: C. Paul Dugger and D. A. Richter (eds.), Proc. of the 2005 Beltwide Cotton Conferences, National Cotton Council, Memphis TN.
- Teague, Tina Gray, David Wildy, Steven Coy, Diana M. Danforth, Morteza Mozaffari and Mukhammadzakhrab Ismanov. 2005. Comparison of Broadcast and Image-based, Variable Rate Application of Mepiquat Chloride on Crop Growth and Fruit Retention Using the COTMAN Crop Monitoring System. pp. 2124-2135 in: C. Paul Dugger and D. A. Richter (eds.), Proc. of the 2005 Beltwide Cotton Conferences, National Cotton Council, Memphis TN.
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- Teague, T. G. and P. W. Teague. 1993. A systems approach to production and marketing fresh market collards in the Midsouth. Annual Meeting of the American Society for Horticultural Science. Nashville, Tennessee.
- Teague, T. G. 1992. Chemical control of pumpkin insect pests with imidacloprid (NTN 33893) insecticide. Proceedings of the Arkansas Agricultural Pesticide Association Annual Meeting, University of Arkansas, Fayetteville. 31:15. University of Arkansas, Fayetteville, Arkansas.
- Barr, Y. and T. G. Teague. 1992. Watermelon transplant technology in the 1990's. Arkansas State Horticultural Society Annual Convention and Trade Show, 19-20 November 1992, Little Rock, Arkansas.
- Teague, T. G. and P. W. Teague. 1992. Effect of plant spacing and harvest method on fresh market collard production. Arkansas State Horticultural Society Annual Convention and Trade Show, 19-20 November 1992, Little Rock, Arkansas.
- Lee, G. S. and T. G. Teague. 1992. Fall Broccoli production using micronutrients in a sustainable system. Annual Meeting of the American Society for Horticultural Science. Honolulu, Hawaii.
- Teague, T. G. 1992. Local transplants outperform Florida transplants in Arkansas Field Trials. Annual Meeting of the Southern Region of the American Society for Horticultural Science. 2-4 February. HortScience. 27:1177. Lexington, Kentucky.
- Teague, P. W. and T. G. Teague. 1992. Economic analysis of post harvest handling methods for fresh market mixed greens. Annual Meeting of the Southern Region of the American Society for Horticultural Science. 2-4 February. Lexington, Kentucky.
- Teague, T.G. 1991. Chemical control of lepidopterous larvae in Brassica crops: 1991 field studies. Arkansas Agricultural Pesticide Association Technical Conference, Fayetteville, AR. 3-4 December.

- Proceedings of the Arkansas Agricultural Pesticide Association Annual Meeting, Volume: 30:26. University of Arkansas, Fayetteville, Arkansas.
- Teague, T.G. and P.W. Teague. 1991. Quality effects of post-harvest handling of fresh market mixed greens. Arkansas State Horticultural Society Annual Convention. 20-21 November. Little Rock, Arkansas.
- Teague, P.W. and T.G. Teague. 1991. The 1991 watermelon market: Putting a value on earliness. Arkansas State Horticultural Society Annual Convention. 20-21 November. Little Rock, Arkansas.
- Langlois, A.J. and T.G. Teague. 1991. The effects of plant population and establishment methods on yield of field grown zinnias. Arkansas State Horticultural Society Annual Convention. 20-21 November. Little Rock, Arkansas.
- Kendig, A., R. Talbert, and T.G. Teague. 1991. Cucurbit weed control. Arkansas State Horticultural Society Annual Convention. 20-21 November. Little Rock, Arkansas.
- Fry, K.M., A.J. Langlois, and T.G. Teague. 1991. Pelletized chicken litter increases yield of staked tomatoes. 20-21 November. Arkansas State Horticultural Society Annual Convention. Little Rock, Arkansas.
- Barr, Y., J. Mitchell, and T.G. Teague. 1991. Bacterial fruit blotch: A new disease in Arkansas watermelons. 20-21 November. Arkansas State Horticultural Society Annual Convention. Little Rock, Arkansas.
- Teague, T. G. 1991. Sequential biological and synthetic insecticide combinations for control of Lepidopterous larvae in cabbage and collards. 8-11 December 1991. Annual Meeting of the Entomological Society of America, Reno, Nevada.
- Teague, T.G. 1991. Boll weevil acceptance of kenaf as a plant host. Annual International Kenaf Association Conference Proceedings, pg 13. 1-2 March, 199. Tulsa, Oklahoma.
- Lee, G.S. and T.G. Teague. 1991. Timing micronutrient applications using a LISA approach. Annual Meeting of the American Society for Horticultural Science. Pennsylvania State University, 21-24 July, 1991. HortScience 26:703. University Park, Pennsylvania.
- Teague, T. G., and P. W. Teague. 1991. A production and marketing system for fall fresh market mixed greens in Arkansas. Annual Meeting of the Southern Region of the American Society for Horticultural Science. Ft. Worth, Texas.
- Kendig, A., R. Talbot, T. G. Teague, and T. McCarty. 1990. Weed control trials in watermelon, 1990. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Lee, G. S. and T. G. Teague, 1990. Micronutrient deficiencies in Arkansas vegetables. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Langlois, A. J. and T. G. Teague, 1990. Zinnias for cut flower production. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Barr, Yvonne and T. G. Teague, 1990. Black rot tolerance in late spring transplant cabbage in eastern Arkansas. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Teague, T. G., 1990. Summer squash and bell pepper variety trials, 1989 and 1990. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Teague, T. G., 1990. Chemical control of armyworm in fall planted sweet corn. Arkansas Agricultural Pesticide Association Technical Meeting, Fayetteville, Arkansas.
- Teague, T. G., James R. Cate, and J. Tom Cothren. 1989. Nitrogen fertilizer effects on survival of neonate *Heliothis virescens* F. larvae in cotton. Entomological Society of America Annual Meeting. San Antonio, Texas.
- Stanley, W. H., T. G. Teague, and P. W. Teague. 1989. Plant population density effects on economic yield of bell pepper. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Teague, T. G., and A. J. Langlois. 1989. Specialty melon field trials in N.E. Arkansas. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Teague, T. G., and G. S. Lee. 1989. Response of seedless watermelon to nitrogen fertilization. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.

- Teague, T. G., 1988. Chemical control of root aphids in cabbage and broccoli. Arkansas Horticultural Society Annual Convention, Fort Smith, Arkansas.
- Cartwright, B., T. G. Teague and L. Chandler. 1988. Economic impact of pepper weevil, *Anthonomus eugenii*, on bell peppers. Southwestern Branch Meeting of the Entomological Society of America, Dallas, Texas.
- Teague, T. G. and D. W. Altman. 1988. Establishment of *Heliothis virescens* larvae on three cotton genotypes grown under two levels of N fertilization. Beltwide Cotton Conference, New Orleans, Louisiana.
- Teague, T. G., J. V. Edelson, and T. C. Royer. 1987. Cabbage root aphid: biology and control. In: Proceedings of the 1987 Texas Vegetable Association Convention, Weslaco, Texas.
- Teague, T. G., James R. Cate, and J. Tom Cothren. 1986. The influence of N fertilization on weight gain of *Heliothis virescens* in cotton. Beltwide Cotton Conference, Las Vegas, Nevada.
- Teague, T. G., James R. Cate, and J. Tom Cothren. 1985. The effect of nitrogen fertilization on establishment of *Heliothis virescens* (F.) in cotton. Beltwide Cotton Conference, New Orleans, Louisiana.
- Horton, D. L., T. G., Teague, W. C. Yearian, J. R. Phillips. 1982. The effect of benomyl and thiabendazole on parasite development in *Heliothis zea*. Southeastern Branch Meeting of the Entomological Society of America, Atlanta, Georgia.
- Phillips, J. R., W. F. Nicholson, T. G. Teague, J. Bernhardt, and T. F. Mueller. 1981. Community insect pest management programs. In: Proceedings of the Cotton Biological Control Conference. pp. 44-9. Dallas, Texas.
- Teague, T. G. and J. R. Phillips. 1980. The effect of the commercial formulation of *Heliothis* nuclear polyhedrosis virus (Elcar) on *Heliothis* parasite searching behavior. Central States Branch Meeting of the Entomological Society of America, Stillwater, Oklahoma.

INVITED PROFESSIONAL PRESENTATIONS

- Teague, T.G. 2013. Insect pest management strategies with Cover Crop Systems. Southern Cover Crops Workshop. USDA-Natural Resources Conservation Service. Jonesboro, AR.
- Teague, T. G. 2012. COTMAN in Research. Cotton Incorporated Agricultural & Environmental Research 2012 Crop Management Seminar and Workshops. 7-9 November 2012. Tunica, MS.
- Teague, T.G. 2012. Cotton Sustainability – Research in the Midsouth. Featured speaker at the Annual National Cotton Council and Cotton Inc. Import Support Program Farm Tour – National Cotton Council, Memphis Tenn, and University of Arkansas Lon Mann Research Station, Marianna, Arkansas – 2 and 4 October 2012.
- Teague, T.G. 2011. Good News in US Cotton – Progress in the Journey toward Sustainability. Invited Distinguished Speaker in the College Colloquium, University of Arkansas Little Rock College of Science and Mathematics Science and College of Engineering and Information Technology, 18 February 2011, Little Rock, AR.
- Teague, T.G. 2011. Integrating Soil and Water Conservation and Pest Management Tactics for Sustainable Cotton Production. Invited presentation to the Agriculture Research Unit of Cotton Inc. Cary, North Carolina, 8 July 2011.
- Teague, T.G. 2011. On the Road to Sustainability in the US. Production- Progress in Soil and Water Conservation and Integrated Pest Management. Invited - Featured speaker at the Annual National Cotton Council and Cotton Inc. Import Support Program Farm Tour – University of Arkansas Lon Mann Research Station, Marianna, Arkansas – October 4 and 6 2011.
- Teague, T.G. 2011. IPM Includes Irrigation Management – Arkansas Cotton Research Update. Invited: Mississippi Delta Conference - Water for Fish and Farmers, Mississippi State University, Stoneville, Mississippi 13-14 September, 2011.

- Teague, T. G. 2008. Cotton Crop Vigor and Tarnished Plant Bugs – Should Management Change Across Variable Fields? Proceedings of the 11th annual National Conservation-Tillage Cotton and Rice Conference, Jan 20-22, Robinsonville, Mississippi.
- Teague, T.G., D.M. Danforth, J. Lund. Compensation Capacity of High and Low Vigor Cotton Plants in Response to Pre-Flower Injury by Tarnished Plant Bug (Heteroptera: Miridae). World Cotton Research Conference 4. 10-14 September 2007. Lubbock, TX.
- Teague, T. G. 2006. Insecticide Termination validation research in Midsouth cotton. The Cotton Incorporated Annual Crop Management Seminar: Special COTMAN Workshop. 31 October 2006, Memphis, TN
- Teague, T. G. 2006. Water Use Efficiency in Agriculture: The COTMAN Decision Guide for Timing the Final Irrigation in Cotton. Midsouth Society of Environmental Toxicology and Chemistry. 26 May 2006. Arkansas State University. Jonesboro, AR.
- Teague, T. G. 2004. COTMAN Insecticide Termination – Decision Guides for Tarnished Plant Bugs. The Cotton Incorporated Annual Crop Management Seminar: Special COTMAN Workshop. 9 November 2004, Robinsonville, Mississippi.
- Teague, T. G. 2004. Tarnished Plant Bug Induced Injury to Cotton. The Cotton Incorporated Annual Crop Management Seminar. 10 November 2004, Robinsonville, Mississippi.
- Teague, T. G. 2002. Validation of the COTMAN Expert System Insecticide Validation Rules. The Cotton Incorporated Annual Crop Management Seminar: Special COTMAN Workshop. 4 November 2002, Robinsonville, Mississippi.
- Teague, T. G. 2002. Production Methods to Reduce Risk of Late Season Insect Damage. The Cotton Incorporated Annual Crop Management Seminar. 5 November 2002, Robinsonville, Mississippi.
- Teague, T. G. 2001. Future Integrated Pest Management Challenges in Midsouth Cotton: Tarnished Plant Bug. Presented to the Mississippi Entomological Association Annual Meeting. 13 November 2001. Starkville, Mississippi.
- Teague, T. G. 2001. Cotton Entomology in the US and Northeast Arkansas. International Cotton Advisory Committee Research Associate Program, 2001 National Cotton Tour. 14 May 2001. Leachville, Arkansas.
- Teague, T. G. 2001. COTMAN Expert System. An invited workshop presented to members of the Texas A&M and Texas Tech University Cotton Research Group. 30 May 2001. Lubbock, Texas.
- Tugwell, N.P. and T. G. Teague. 2000. Square and Boll Retention: The Entomologist's Response. The Cotton Incorporated Annual Crop Management Seminar. 17 November 2000, Memphis, Tennessee.
- Teague, T. G. 1999. Timing irrigation by plant growth and fruit retention. Arkansas Annual Cotton Research Meeting. 9 February 1999, Blytheville, Arkansas.
- Teague, T. G. 1998. The COTMAN Expert System as a Research Tool for Examining Stress. A Workshop presented to the Cotton Incorporated Root Health Working Group. 3 February, Ft Worth, Texas
- Teague, T. G. 1998. Cotton insect pest management across the US cotton belt. A series of lectures to university researchers and students at the Xinjiang Agriculture Academy, 3 July 1998, Urumiqi, People's Republic of China.
- Teague, T. G. 1998. Managing for earliness in Midsouth cotton. A lecture to Dow AgroSciences Discovery Research Personnel at their World Headquarters, 17 June 1998, Indianapolis, Indiana.
- Teague, T. G. 1998. Innovations in cotton insect pest management. Annual Meeting of the Southern Sustainable Agriculture Working Group, 24 January 1998, Memphis, Tennessee.
- Dabney, S. and T. G. Teague. 1998. Grass hedges for soil erosion control - field studies in Mississippi and Arkansas. Sustainable Agriculture Professional Development Seminar. 22 January 1998, Memphis, Tennessee.
- Teague, T. G. 1995. Sustainable agriculture research you can use on your farm: SARE research using wastes for soil fertility. Invited lecture to the Southern Sustainable Agriculture Working Group Conference. 13-15 January 1995, Gulf Shores, Alabama.

- Teague, T. G. 1998. Boll weevil eradication technology for Arkansas Cotton. Annual Arkansas Cotton Research Conference. 17 February 1998, Pine Bluff, Arkansas.
- Teague, T. G. 1994. Agricultural wastes as soil amendments in sustainable vegetable production systems. Identifying alternative uses for agricultural and environmental resources workshop. Northeast Arkansas Rural Development Forum. Arkansas State University, 4 April 1994, Jonesboro, Arkansas.
- Teague, T. G. 1994. Regional research on compost and natural fertilizers. Oklahoma State Horticulture Industries Show, 8 January 1994, Tulsa, Oklahoma.
- Teague, T. G. 1993. Use of organic soil amendments for vegetable crop production on the ALFDC Demonstration Farm. Culture, Issues and Services Workshop at the Arkansas Land and Farm Development Corporation 12th Annual Conference. 22 October 1993, Fargo, Arkansas.
- Teague, T. G. 1993 Utilization of pelletized chicken litter in a fertility program for vegetables. 38th Annual Rural Life Conference, University of Arkansas at Pine Bluff, 29 January 1993, Pine Bluff, Arkansas.
- Teague, T. G. 1993 Habitat management for natural enemies: theory and practice. Oklahoma State Horticulture Industries Show, 8 January 1993, Tulsa, Oklahoma.
- Teague, T. G. 1992 Pelletized poultry litter effects on vegetable production in Eastern Arkansas. Poultry Litter Utilization Workshop, Winrock International Sustainable Agriculture Program, 2 June 1992, Fayetteville, Arkansas.