

Randall G. Luttrell

Professor
University of Arkansas, Fayetteville



Current Appointment: 65% Research; 25% Teaching; 10% Service.

Education

Ph.D.	1981	University of Arkansas, Fayetteville, Arkansas	Entomology
M.S.	1978	University of Arkansas, Fayetteville, Arkansas	Entomology
B.S.	1976	Texas A&M University, College Station, Texas	Agricultural Education

Professional Experience

University of Arkansas, Fayetteville, Department of Entomology	
Professor	1998-present
University of Arkansas, Dale Bumpers College of Agricultural, Food and Life Sciences	
Associate Dean/Associate Director	1998-2001
Mississippi State University, Mississippi State, Department of Entomology	
Professor	1992-1998
Associate Professor/Associate Entomologist	1986-1992
Acting Head	1988-1989
Assistant Professor/Assistant Entomologist	1981-1986

Awards and Honors

- Recognition of Outstanding Service, National Association of State Universities and Land-Grant Colleges, Board of Agriculture, 2001
- Award for Excellence in Integrated Pest Management, Southeastern Branch of the Entomological Society of America, 1999
- First Mississippi Corporation Award for Outstanding Worker, Mississippi Agricultural and Forestry Experiment Station, Mississippi State University, 1996
- Certificate of Appreciation, Mississippi Agricultural Consultants Association, 1994
- Merit Award for Teaching, Mississippi Entomological Association, 1990
- Merit Award for Research, Mississippi Entomological Association, 1988
- R. E. L. Wilson Outstanding Graduate Student, College of Agriculture and Home Economics, University of Arkansas, 1980
- Outstanding Freshman Cadet, Company B-1, Texas A&M University, 1973
- Jesse Jones Agricultural Scholarship, Texas A&M University, 1972-19

Areas of Research/Extension Specialization

Research emphasizes management of pests of agronomic crops and pecans, insecticide resistance management, and community-wide pest management. Current projects focus on understanding insect management across large production farms, describing and measuring selection for Bt resistance in heliothines, deploying trap crops for stink bug management, and characterizing the factors influencing insect management of pecan in southwestern Arkansas.

Publications

Authored or coauthored more than 142 publications (56 refereed journals, bulletins, book chapters).

Selected Publications

Luttrell, R. G. 2006. Ecological effects of chemical control practices: The environmental perspective. Ch. 2 in Opende Koul and Gerrit W. Cuperius (Eds.), Ecologically Based Integrated Pest Management, CAB International, Wallingford, UK, (*In press*)

- Ali, M. I., R. G. Luttrell, and S. Y. Young, III. 2006. Susceptibilities of bollworm, *Helicoverpa zea* (Boddie) and tobacco budworm, *Heliothis virescens* F. (Lepidoptera: Noctuidae) populations to Cry1Ac insecticidal protein. *J. Econ. Entomol.*, (*In press*)
- Allen, K. C., R. G. Luttrell, M. Wall, J. Smith, D. Hardee, and R. Voth. 2004. Influence of surrounding crop structure on heliothine trap captures in Arkansas. Pp. 1417-1421. *In Proc. 2004 Beltwide Cotton Conf.*, National Cotton Council, Memphis, TN.
- Luttrell, R. G., T. G. Teague, D. Danforth, B. Blackman, D. Wells, D. Wildy, S. Wall, T. Freeland and P. O'Leary. 2004. Further examination of COTMAN and grower production records as a basis for farm-wide management of cotton insects. Pp. 1395-1403. *In Proc. 2004 Beltwide Cotton Conf.*, National Cotton Council, Memphis, TN.
- Lenne, Jill, and R. G. Luttrell. 2003. Sustainable control of the cotton bollworm (*Helicoverpa armigera*) in small scale cotton production systems. Mid-term review of Common Fund for Commodities/ International Cotton Advisory Committee Project 014, Natural Resources International, UK and cooperating universities and government agencies in China, India, Pakistan, and Great Britain.
- Parker, C. D., Jr., and R. G. Luttrell. 1999. Interplant movement of *Heliothis virescens* (Lepidoptera: Noctuidae) larvae in pure and mixed plantings of cotton with and without the expression of the CryIA(c) delta-endotoxin protein of *Bacillus thuringiensis*. *J. Econ. Entomol.* 92:837-845.
- Willers, J. L., M. R. Seal, and R. G. Luttrell. 1999. Remote sensing, line-intercept sampling for tarnished plant bugs (Heteroptera: Miridae) in mid-south cotton. *J. Cotton Sci.* 3:160-170.
- Luttrell, R. G., L. Wan, and K. Knighten. 1999. Variation in susceptibility of noctuid (Lepidoptera) larvae attacking cotton and soybean to purified endotoxin proteins and commercial formulations of *Bacillus thuringiensis*. *J. Econ. Entomol.* 92:21-32.

Contracts and Grants

Since 2002, our program has generated \$518,430 in grant funds from Cotton Incorporated, Arkansas Soybean Promotion Board, USDA-ARS Cooperative Agreements, Arkansas Agricultural Experiment Station Research Initiation Program, and the EPA Biotechnology Risk Assessment Program. During this period we also obtained \$149,000 in industry contracts with Monsanto, Syngenta, Delta Pine and Land, and G. McKibben. Previously at Mississippi State (1981-1997), our program obtained 23 grants and many contracts totaling \$1.3 million (~\$800,000 in grants and \$500,000 in contracts).

Professional Service

Entomological Society of America, Southeastern Branch Entomological Society (Secretary, President)
 Mississippi Entomological Association, Arkansas Entomological Society
 Georgia, Florida, South Carolina and Southwestern Entomological Societies
 Regional Projects Associated with Cotton Insects, National Association of Teachers of Agriculture

Teaching Experience

Since 2001 served as instructor for Advanced Applied Entomology and co-instructor for sophomore-level survey course in Pest Management at the University of Arkansas. Previously taught Insect Pest Management and Advanced Pest Management at Mississippi State University (18 years), and served as coordinator of undergraduate degree program in Pest Management across three academic disciplines (5 years). Major professor for 1 Ph.D and 1 M.S. student at the University of Arkansas. Major professor for 3 Ph.D, 11 M.S., and 1 M. Agriculture student at Mississippi State University. Undergraduate advisor to ~60 students at Mississippi State and the University of Arkansas.