

Ed Bynum

Assistant Professor and AgriLife Extension Entomologist
Texas A&M University, Texas

Current Appointment: 100% Extension

Education

B.S.	1973	Animal Production	Texas Tech University, Lubbock, Texas
M.S.	1976	Entomology	Texas Tech University, Lubbock, Texas
Ph.D.	2003	Agronomy	Texas Tech University, Lubbock, Texas

Professional Experience

Texas A&M AgriLife Extension Service, Amarillo, TX	
Assistant Professor and AgriLife Extension Entomologist	2009-present
Texas Cooperative Extension Service	
Extension Agent-IPM, Sweetwater, TX	2005-2008
Texas Agricultural Experiment Station	
Senior Research Associate, Dallas, TX	2004
Texas Agricultural Experiment Station, Lubbock, TX	
Assistant Research Scientist	1999-2003
Senior Research Associate	1987-1999
Research Associate	1977-1987
Technician I	1976-1977

Awards and Honors

2013 Team Excellence Award – District 1 Moth Trapping Team
2011 Service Ethic Award – District 1 Specialists
2008 Friends of Southern IPM Outstanding State IPM Program Award to the Texas IPM Program, Texas A&M AgriLife Extension team member.
Texas Pest Management Association 2006 Excellence in IPM Programming Award.
Dedicated Service Award from FMC Corporation, 1994
Meritorious Award for Technical Staff Support from The Texas A&M University System's Entomology Department, 1993
Research Support - Off Campus Award from the Texas A&M University System, 1989
West Texas Agricultural Chemicals Institute Award for Outstanding Contributions to the Agricultural Chemicals Industry of West Texas, 1988

Area of Research Specialization

Although my current position is 100% Extension, I still conduct applied research in IPM for spider mites and lepidopteran pest of corn, wheat aphids, and grain sorghum pests. My background is in the areas of

insect behavior, host plant resistance, cultural practices, biological control, insecticide efficacy and resistance management, and damage potential for arthropod pests of corn, cotton, grain sorghum, wheat, and sunflower.

Publications

Authored or co-authored 56 refereed publications, 16 editor-reviewed papers, and 7 Extension publications

Selected Publications

Extension Publications

Bynum, Ed, Allen Knutson, James Swart, and Marty Jungman. 2012. *Managing insect and mite pests of Texas small grains E-399*. Texas A&M AgriLife Extension Service. 21pp.

Bean, Brent, Jim MacAfee, **Ed Bynum**, Ronald French, and Nich Kenny. 2012. *Turf management for the Texas Panhandle*, Texas A&M AgriLife Extension SCS-2012-03, 32 pp.

Marasalis, M. A., B. Bean, S. H. Amosson, **E. D. Bynum**, F. E. Contreras-Govea, T. Isakeit, and N. Kenny. 2010. *Western forage production guide*. United Sorghum Checkoff Program. 122 pp.

Patrick Porter, Gregory B. Cronholm, Roy D. Parker, Noel N. Troxclair, **Ed Bynum**, Carl D. Patrick, and Stephen Biles, 2010. *Managing insect and mite pests of Texas corn E-400*. Texas A&M AgriLife Extension Service. 24 pp.

Bynum, E. 2009. *Managing insect pests of Texas sunflower E-579*. Texas A&M AgriLife Extension Service. 19 pp.

Bynum, E., S. Byrns, T. Fuchs, R. Minzenmayer, and W. Multer. 2006. *Cotton "Worms" – ID Key*. Texas Cooperative Extension. L-5474. 2 pp.

Porter, P., N. Troxclair, G. Schuster, D. O. Porter, G. Cronholm, **E. Bynum, Jr.**, C. Patrick, and S. G. Davis. 2005. *Texas corn production: Emphasizing pest management and irrigation*. Texas Cooperative Extension B-6177. 71 pp.

Refereed Publications

Michels, G.J., Jr., T.A. Royer, E.N. Jones, R. A. Lange, **E.D. Bynum**, D.C. Ruthven III, J.L. Tracy, and J.B. Bible. 2013. *New Establishment and county records for *Diorhabda* spp. (Coleoptera:Chrysomelidae) and *Coniatus splendidulus* (Coleoptera:Curculionidae) in the Texas Panhandle and Western Oklanoma*. Southwestern Entomologist. 38(2): 173-182. DOI: <http://dx.doi.org/10.3958/059.038.0203>.

Goolsby, J.A., J. Adamczyk, J. M. Crosslin, N. N. Troxclair, J. R. Anciso, G. G. Bester, J. D. Bradshaw, **E. D. Bynum**, L.A. Carpio, D.C. Henne, A. Joshi, J. E. Munyaneza, P. Porter, P. E. Sloderbeck, J. R. Supak, C. M. Rush, F. J. Willett, B.J. Zechmann, and B. A. Zenns. 2012. *Seasonal population dynamics of the potato psyllid, *Bactericera cockerelli* (Hemiptera: Psyllidae) and its associated pathogen "*Cadidatus Liberibacter solanaceraum*" in potatoes in the southern Great Plains*. J. Econ. Entomol. 105: 1268-1276.

Guenther, J., **E. Bynum**, C. Rush, and G. Greenway. 2012. *Zebra chip control cost based on Psyllid Population*. Potato Journal, Short Note. Potato J. 39 (2): 197-201.

Pietrantonio, P. V., T. A. Juneck, R. Parker, **E. Bynum**, G. Cronholm, G. Moore, D. Mott, C. Sansone, K. Siders, and N. Troxclair. 2007. *Monitoring for pyrethroid resistance in bollworm (*Helicoverpa zea*) in Texas: Trends from 2003-2005*. Online. Plant Health Progress doi: 10.1094/PHP-2007-00719-04-RV.

Bynum, E. D., Jr., W. Xu., and T. L. Archer. 2004. *Potential efficacy of spider mite-resistant genes in maize testcrosses*. Crop Protection. 23: 625-634.

Bynum, E. D., Jr., W. Xu, and T. L. Archer. 2004. *Diallel analysis of spider mite (Acari:Tetranychidae) resistant maize inbred lines and F₁ crosses*. Crop Sci. 44: 1535-1541.

Xu, W., T. L. Archer, and **E. D. Bynum, Jr.** 2004. *Registration of maize germplasm line TX202*. Crop Sci. 44: 1883-1884.

Xu, W., T. L. Archer, and **E. D. Bynum, Jr.** 2004. *Registration of maize germplasm TX203*. Crop Sci. 44: 1884.

Contracts and Grants

During the period from 2009 to the present, principal or co-investigator on grants, contracts and gifts totaling more than \$950,000 for research and extension associated with pest management for corn, potatoes, and wheat.

Professional Service

Journal manuscript reviews (23) for Journal of Economic Entomology, Journal of Agricultural Entomology, Canadian Entomologist, Journal of Integrated Pest Management, Journal of the Kansas Entomological Society and Southwestern Entomologist.

Entomological Society of America

Audit Committee, Southwestern Branch, 2013-2014

Society of Southwestern Entomologists

President-elect, 2012-2013

President, 2013-2014