

# Megha N. Parajulee, Ph.D.

## Presentations and Publications

### I. Presentations

#### A. Invited Presentations

##### *International*

1. **Parajulee, M. N.** and T. W. Phillips. 1992. Biology and field activity of *Lyctocoris campestris* (Heteroptera: Anthocoridae), a predator of stored-product insects. First International Symposium on Stored Grain Ecosystems, June 7-10, Winnipeg, Canada.
3. **Parajulee, M. N.** and T. W. Phillips. 1994. Life history, predatory biology, and population ecology of *Lyctocoris campestris* (Heteroptera: Anthocoridae). The Sixth International Working Conference on Stored-Product Protection, April 17-23, Canberra, Australia.
4. **Parajulee, M. N.** and T. W. Phillips. 1994. Monitoring field populations of *Lyctocoris campestris*, a predator of stored grain insects: Assessment of different trap designs. Special Trapping Workshop, The 6<sup>th</sup> International Working Conference on Stored-Product Protection, April 17-23, Canberra, Australia.
5. **Parajulee, M. N.**, D. R. Rummel, M. D. Arnold, and S. C. Carroll. 2004. Long-term seasonal abundance patterns of Heliothine species: Implications in pest management. The 15<sup>th</sup> International Plant Protection Congress, May 11-16, Beijing, China (Symposium Lead Organizer).
6. **Parajulee, M. N.** and R. B. Shrestha. 2004. Biological control of cotton aphids, *Aphis gossypii*, in cotton: Effectiveness of *Hippodamia convergens* and *Chrysoperla carnea*. The 22<sup>nd</sup> International Congress of Entomology, August 15-21, Brisbane, Australia (Symposium Lead Organizer).
7. **Parajulee, M. N.**, S. C. Carroll, M. D. Arnold, R. B. Shrestha, A. M. Cranmer, and P. L. Bommireddy. 2005. Species composition and host-plant sequence of *Lygus* bugs in the Texas High Plains. International Symposium on Ecology and Management of *Lygus* Plant Bugs, January 30-February 3, Ottawa, Canada.
8. **Parajulee, M. N.** 2007. Ecological approaches to pest management: Integrating basic and applied research in cotton IPM in the United States. Ghana Atomic Energy Commission Seminar Series, June 7, Accra, Ghana (Invited Speaker).
9. **Parajulee, M. N.** 2007. Overview of agricultural research/teaching programs at the Texas Agricultural Experiment Station and Texas Tech University: Opportunities for collaborative linkage. Ghana Atomic Energy Commission Seminar Series, June 7, Accra, Ghana (Invited Speaker).
10. **Parajulee, M. N.**, and A. K. Barman. 2007. Cotton compensation of *Lygus* induced square loss in a limited irrigation production regime. World Cotton Research Conference, September 10-14, Lubbock, TX (Invited Speaker).
11. Carroll, S. C., **M. N. Parajulee**, and M. D. Arnold. 2007. Survey of lady beetles (Coleoptera: Coccinellidae) found on Texas High Plains cotton, alfalfa and weeds. World Cotton Research Conference, September 10-14, Lubbock, TX.
12. Shrestha, R. B., **M. N. Parajulee**, and M. J. Grimson. 2007. SEM ultrastructure study of *Lygus hesperus* (Knight) (Hemiptera: Miridae). World Cotton Research Conference, September 10-14, Lubbock, TX.
13. Barman, A. K., R. F. Medina, **M. N. Parajulee**, C. P. Suh, and C. G. Sansone. 2007. Developing AFLP markers to study genetic differentiation of the cotton fleahopper, *Pseudatomoscelis seriatus* (Reuter) (Hemiptera: Miridae). World Cotton Research Conference, September 10-14, Lubbock, TX.
14. **Parajulee, M. N.** 2008. Habitat manipulation in cotton IPM: Host plant utilization, host sequence, and host preference of *Lygus hesperus*. International Congress of Entomology, July 6-12, Durban, South Africa.
15. **Parajulee, M. N.**, R. B. Shrestha, A. K. Barman, and S. C. Carroll. 2008. Ecologically intensive pest management in cotton agroecosystems: *Lygus hesperus* as a model system. Fourth International Conference of Plant Protection Institute, November 9-12, Dokki-Giza, Egypt (Conference Keynote Speaker).
16. **Parajulee, M. N.**, F.-J. Chen, and G. Feng. 2009. Impact of global warming on management of agricultural arthropods: Elevated CO<sub>2</sub> and tri-trophic interactions in cotton agroecosystems. International Congress of Global Warming on Biodiversity of Insects: Management and Conservation, February 9-12, Coimbatore, India (Congress Plenary Speaker).

### *National*

1. **Parajulee, M. N.** 1993. Biology and predatory potential of *Lyctocoris campestris*. A special seminar given to the "People's Republic of China Team-7: Application of Predatory Insects in Grain Storage Management" at USDA-ARS Laboratory, June 28, Madison, WI.
2. **Parajulee, M. N.** 1994. Biology of *Lyctocoris campestris*, a predator of stored grain insects. USDA-ARS, Stored Product Insects Research and Development Laboratory, May 2, Savannah, GA.
3. **Parajulee, M. N.** 1996. Life history, predatory biology, and population ecology of *Lyctocoris campestris* (Hemiptera: Anthocoridae). Department of Entomology, Oklahoma State University, June 24, Stillwater, OK.
4. **Parajulee, M. N.** 1998. Biological and cultural management of insect pests in cotton agroecosystems. Univ. of Nebraska Northeast Research and Extension Center, December 14, Concord, NE.
5. **Parajulee, M. N.** 1998. Biological and cultural management of insect pests in cotton agroecosystems. Department of Entomology, University of Nebraska, December 15, Lincoln, NE.
6. **Parajulee, M. N.** 1999. Biologically intensive pest management in cotton: Strategies for reducing pesticide usage. Department of Entomology, North Dakota State University, May 3, Fargo, ND.
7. **Parajulee, M. N.** 1999. Bridging the gap between research and clientele: Role of extension in integrated pest management programs. Department of Entomology, North Dakota State University, May 4, Fargo, ND.
8. **Parajulee, M. N.** 1999. Biological control potential of *Lyctocoris campestris* in stored-product ecosystems. Department of Entomology, University of Minnesota, October 4, St. Paul, MN.
9. **Parajulee, M. N.** 1999. Development and delivery of IPM in stored-products: Research and extension partnership in the 21<sup>st</sup> Century. Department of Entomology, University of Minnesota, October 5, St. Paul, MN.
10. **Parajulee, M. N.** 1999. Biologically intensive pest management in cotton agroecosystems. Texas Agricultural Experiment Station, November 1, Corpus Christi, TX.
11. **Parajulee, M. N.** 1999. Biologically intensive pest management in cotton agroecosystems. Department of Entomology, Texas A&M University, November 2, College Station, TX.
12. **Parajulee, M. N.** 2001. Biologically and ecologically intensive pest management in cotton agroecosystems. Texas Agricultural Experiment Station, April 25, Lubbock, TX.
13. **Parajulee, M. N.** 2001. Biologically and ecologically intensive pest management in cotton agroecosystems. Department of Entomology, Texas A&M University, April 26, College Station, TX.
14. **Parajulee, M. N.** 2002. Effect of temperatures on boll weevil survival in cotton modules. Cotton Council International Joint Meeting of the Cotton USA and Pakistani Plant Protection Officials, May 22, Lubbock, TX.
15. **Parajulee, M. N.** 2002. Cotton entomology research program at the Lubbock Center: A new direction for west Texas cotton IPM. Monsanto World Headquarters, June 24-26, St. Louis, MO.
16. Leser, J. F., and **M. N. Parajulee.** 2005. Early square loss and compensation capacity for Texas High Plains cotton. National COTMAN Working Group Meeting, November 16-17, Austin, TX (Discussion panel).
17. **Parajulee, M. N.** 2005. In-season crop management: Compensation for *Lygus* induced fruit loss in cotton. National COTMAN Working Group Meeting, November 16-17, Austin, TX (Discussion panel).
18. **Parajulee, M. N.** 2006. Sampling *Lygus* bugs in West Texas. USDA-ARS *Lygus* and Stink Bug Symposium and Workshop at the Beltwide Cotton Conference, January 4, San Antonio, TX (Invited Speaker and Panel Discussion Member).
19. **Parajulee, M. N.** 2006. Cotton IPM research in Texas: Generating ecologically-based IPM information. Fifth National Integrated Pest Management Symposium, April 4-6, St. Louis, MO. (Invited Symposium Organizer and Lead Speaker).
20. **Parajulee, M. N.** 2006. Sampling basics: Sampling considerations in cotton IPM. Southern Extension and Research Activities Information Exchange Group (SRA-IEG 23) Annual Symposium, October 31, Memphis, TN (Symposium Organizer and Lead Speaker).

21. **Parajulee, M. N.** 2007. Host plant utilization for plant bug species in the Texas High Plains. Plant Bug Symposium at the Beltwide Cotton Conference, January 10, New Orleans, LA (Invited Speaker).
22. **Parajulee, M. N.** 2007. Connecting to the world: Should ESA have an International Branch? Entomological Society of America Program Symposium, December 8-13, San Diego, CA (Organized the Program Symposium; Program Enhancement Funds were also awarded).
23. **Parajulee, M. N.** 2008. Connecting to the world: Should ESA have an International Branch? Entomological Society of America Program Symposium, November 16-19, Reno, NV (Organized the Program Symposium; Program Enhancement Funds were also awarded).

#### **Regional/State**

1. **Parajulee, M. N.** 2001. Overview of cotton entomology research in Lubbock. Entomology Science Conference, October 29-November 1, College Station, TX.
2. **Parajulee, M. N.** 2002. *Lygus* and other plant bugs - an emerging issue. West Texas Cotton IPM Conference, March 6-7, Lubbock, TX (moderated the session).
3. **Parajulee, M. N.** 2002. Cotton entomology research program at the Lubbock Center. High Plains Association of Crop Consultants Annual Meeting, March 5-6, Lubbock, TX.
4. **Parajulee, M. N., M. D. Arnold, S. C. Carroll, A. M. Cranmer, R. B. Shrestha, and P. L. Bommireddy.** 2003. *Lygus* abundance on wild hosts: A survey across the Texas High Plains. High Plains Association of Crop Consultants Annual Meeting, March 4-5, Lubbock, TX.
5. **Carroll, S. C., M. N. Parajulee, R. B. Shrestha, and M. D. Arnold.** 2003. Beet armyworm seasonal activity in cotton as affected by pigweed. High Plains Association of Crop Consultants Annual Meeting, March 4-5, Lubbock, TX.
6. **Parajulee, M. N.** 2003. Cotton arthropod research directions after boll weevil eradication. Field Crop IPM Symposium at the ESA-SW Branch Annual Meeting, February 24-27, Oklahoma City, OK.
7. **Parajulee, M. N.** 2003. High Plains cotton entomology: Issues and answers. West Texas Agricultural Chemicals Institute Annual Conference, September 16, Lubbock, TX.
8. **Parajulee, M. N. and J. F. Leser.** 2003. Review of potential area-wide management of *Lygus* bugs in Texas. Tarnished Plant Bug/Stink Bug Area-wide Management Meeting, USDA-ARS, October 21-22, Stoneville, MS.
9. **Parajulee, M. N.** 2004. Ecological differences in *Lygus* bugs and management challenges for the Texas High Plains. Cotton Symposium at the ESA-Southwestern Branch Annual Meeting, February 22-26, Lubbock, TX (Lead organizer of the symposium).
10. **Parajulee, M. N.** 2004. Economic evaluation of Bollgard technology for the Texas High Plains. Monsanto Field Day at the Helms Farm, August 3, Halfway, TX.
11. **Parajulee, M. N.** 2004. Joint research-extension programs in cotton entomology at the Helms Research Validation Farm. TAMU/TAES Administration Area Tour, September 23, Halfway, TX.
12. **Parajulee, M. N. and J. F. Leser.** 2005. Plant bug issues in the Texas High Plains. High Plains Association of Crop Consultants Annual Meeting, March 1-2, Lubbock, TX.
13. **Leser, J. F. and M. N. Parajulee.** 2005. What do we know about the pink bollworm problem in the Texas High Plains? High Plains Association of Crop Consultants Annual Meeting, March 2, Lubbock, TX.
14. **Leser, J. F. and M. N. Parajulee.** 2005. Managing insects in Bt versus non-Bt cotton. High Plains Association of Crop Consultants Annual Meeting, March 2, Lubbock, TX.
15. **Parajulee, M. N. and A. K. Barman.** 2006. Cotton compensation of *Lygus* induced fruit loss: Are we too aggressive in plant bug management? Plant Bug Symposium at the ESA-Southwestern Branch Annual Meeting, February 28-March 2, Austin, TX (Lead organizer of the symposium).

16. **Parajulee, M. N.**, C. P. Suh, and A. E. Knutson. 2006. Current projects and research priorities in plant bug management. Plant Bug Symposium at the ESA-Southwestern Branch Annual Meeting, February 28-March 2, Austin, TX (Lead organizer of the symposium).
17. **Parajulee, M. N.** 2006. Compensation of *Lygus* induced fruit loss in cotton. High Plains Association of Crop Consultants Annual Meeting, March 7, Lubbock, TX (Program Committee).
18. **Parajulee, M. N.** 2007. How much early fruit loss can cotton tolerate? High Plains Association of Crop Consultants Annual Meeting, March 6, Lubbock, TX (Program Committee).
19. **Parajulee, M. N.** 2007. Sampling basics: Sampling considerations in arthropod management. TAMU Statewide Extension Entomology Retreat, March 27-29, New Braunfels, TX.
20. **Parajulee, M. N.** 2008. Cotton response to cotton fleahopper induced fruit loss. Southwest Cotton Technology Conference, February 6-7, San Antonio, TX.
21. **Parajulee, M. N.** 2008. Compensation to *Lygus*-induced fruit loss in cotton: Effect of plant phenological stage. Entomological Society of America Pacific Branch Annual Meeting, March 28-April 2, Napa, CA (Symposium speaker).
22. **Parajulee, M. N.** 2008. Cotton Entomology Program in the High Plains: Ecologically intensive IPM approach to manage cotton arthropods. Texas Tech University Departmental Seminar Series, Plant and Soil Science Department, April 21, Lubbock, TX.
23. **Parajulee, M. N.** 2008. Cotton compensation of insect-induced fruit loss. High Plains Association of Crop Consultants Annual Meeting, March 4-5, Lubbock, TX (Program Committee).

## **B. Submitted Presentations**

### ***International***

1. Ge, F., F. Chen, **M. N. Parajulee**, and E. N. Yardim. 2004. Differentiation and overwintering duration of the fourth generation cotton bollworm, *Helicoverpa armigera* (Hübner) in cotton and corn fields in northern China. The 15<sup>th</sup> International Plant Protection Congress, May 10-16, Beijing, China (Oral).
2. Ge, F., L. Du, **M. N. Parajulee**, and C. A. Edwards. 2004. A quantitative method to evaluate the biological control efficiency of lady beetle, *Propylaea japonica*, on cotton aphid, *Aphis gossypii*. The 15<sup>th</sup> International Plant Protection Congress, May 10-16, Beijing, China (Oral).
3. **Parajulee, M. N.** and R. B. Shrestha. 2004. Potential of convergent lady beetle, *Hippodamia convergens*, in suppressing cotton aphids, *Aphis gossypii*. The 15<sup>th</sup> International Plant Protection Congress, May 10-16, Beijing, China (Poster).

### ***National***

1. **Parajulee, M. N.** and G. R. DeFoliart. 1991. A fecundity model for use in mass-production of the house cricket (*Acheta domesticus*) as food and feed. Biology Graduate Student Conference, March 15, University of Wisconsin-Madison, WI (Oral).
2. **Parajulee, M. N.**, G. R. DeFoliart, and D. B. Hogg. 1991. A fecundity model for use in mass-production of the house cricket as food or feed. Annual meeting of the Entomological Society of America, December 6-11, Reno, NV (Oral).
3. Phillips, T. W. and **M. N. Parajulee**. 1991. Volatiles of stored-product Anthocorids: *X. flavipes* and *L. campestris*. Annual meeting of the Entomological Society of America, December 6-11, Reno, NV (Oral).
4. **Parajulee, M. N.** and T. W. Phillips. 1992. General biology of *Lyctocoris campestris*, a predator in stored-product ecosystem. Entomological Society of America North-Central Branch Meeting, March 15-18, Kansas City, MO (Oral).
5. **Parajulee, M. N.** and T. W. Phillips. 1992. Laboratory study of the functional response of *Lyctocoris campestris*, a predator of stored-product insects. Annual meeting of the Entomological Society of America, December 5-10, Baltimore, MD (Oral).

6. **Parajulee, M. N.** and T.W. Phillips. 1993. Prey utilization by *Lyctocoris campestris* (Heteroptera: Anthocoridae). Entomological Society of America North-Central Branch Meeting, March 21-24, Fargo, ND (Oral).
7. **Parajulee, M. N.** and T. W. Phillips. 1993. Response variation of predatory pirate bugs to prey insects in stored grain ecosystems. Annual meeting of the Ecological Society of America, July 31-August 4, Madison, WI (Oral).
8. **Parajulee, M. N.** and T. W. Phillips. 1993. Seasonal abundance of the predator *Lyctocoris campestris* (Heteroptera: Anthocoridae) in stored corn in Wisconsin. Annual meeting of the Entomological Society of America, December 12-16, Indianapolis, IN (Oral).
9. Phillips, T. W., **M. N. Parajulee**, J. E. Throne, and E. V. Nordheim. 1994. Effects of constant temperatures and relative humidities on life history of *Lyctocoris campestris*. Annual meeting of the Entomological Society of America, December 13-17, Dallas, TX (Poster).
10. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, and P. J. Trichilo. 1994. Relationship between ambient air temperature and leaf litter temperature in boll weevil overwintering habitats in the Texas Rolling Plains. Annual meeting of the Entomological Society of America, December 13-17, Dallas, TX (Oral).
11. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, and P. J. Trichilo. 1995. Insulating values of boll weevil overwintering habitats: Implications of using habitat versus ambient temperatures in developing meteorological data-based predictive models. Beltwide Cotton Conference, January 4-7, San Antonio, TX (Oral).
12. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, P. J. Trichilo, and S. Bozkurt. 1995. Improving our understanding of boll weevil overwintering biology. Annual meeting of the Entomological Society of America, December 17-21, Las Vegas, NV (Oral).
13. **Parajulee, M. N.**, L. T. Wilson, S. Bozkurt, D. R. Rummel, S. C. Carroll, and P. J. Trichilo. 1996. Predicting boll weevil overwintering survival and spring emergence in the Rolling Plains of Texas. Beltwide Cotton Conference, January 8-12, Nashville, TN (Oral).
14. **Parajulee, M. N.** and J. E. Slosser. 1997. Potential relay strip crops for predator enhancement in cotton. Beltwide Cotton Conference, January 6-10, New Orleans, LA (Oral).
15. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, P. J. Trichilo, J. E. Slosser, and T. W. Fuchs. 1997. Insulating abilities of six boll weevil overwintering habitats from the Rolling Plains of Texas. Beltwide Cotton Conference, January 6-10, New Orleans, LA (Oral).
16. **Parajulee, M. N.** and J. E. Slosser. 1997. Predator enhancement in cotton: Use of relay strip crops. Entomological Society of America Southwestern Branch Meeting, February 17-20, Oklahoma City, OK (Oral).
17. **Parajulee, M. N.** and J. E. Slosser. 1998. Evaluation of potential relay strip crops for predator enhancement in cotton. Beltwide Cotton Conferences, January 5-10, San Diego, CA (Oral).
18. **Parajulee, M. N.** and J. E. Slosser. 1998. Pesticide-free cotton production system: Is it feasible? Entomological Society of America Southwestern Branch Meeting, February 9-12, Corpus Christi, TX (Oral).
19. **Parajulee, M. N.**, J. E. Slosser, and D. G. Bordovsky. 1999. Cultural practices affecting the abundance of cotton aphids and beet armyworms in dryland cotton. Beltwide Cotton Conferences, January 3-7, Orlando, FL (Oral).
20. Boring, E. P., **M. N. Parajulee**, and J. E. Slosser. 1999. Bollworm and budworm moth activity in the Texas Rolling Plains. Beltwide Cotton Conferences, January 3-7, Orlando, FL (Poster).
21. Slosser, J. E., **M. N. Parajulee**, D. R. Rummel, and D. L. Hendrix. 1999. Influence of irrigation and chemical treatments on cotton aphid infestations. Entomological Society of America Southwestern Branch Meeting, February 22-26, Las Cruces, NM (Oral).
22. **Parajulee, M. N.**, J. E. Slosser, and D. G. Bordovsky. 1999. Influence of skip-row planting pattern on insect pest abundance and damage in dryland cotton. Entomological Society of America Southwestern Branch Meeting, February 22-26, Las Cruces, NM (Oral).
23. **Parajulee, M. N.** and J. E. Slosser. 2000. Influence of boll weevil eradication on moth activity in the Texas Rolling Plains. Beltwide Cotton Conferences, January 4-8, San Antonio, TX (Oral).

24. Slosser, J. E., **M. N. Parajulee**, D. R. Rummel, and D. L. Hendrix. 2000. Management of cotton lint stickiness in Texas cotton. Beltwide Cotton Conferences, January 4-8, San Antonio, TX (Oral).
25. **Parajulee, M. N.**, J. E. Slosser, and D. G. Bordovsky. 2000. Skip-row planting pattern and insect pest management in dryland cotton. Entomological Society of America Southwestern Branch Meeting, February 9-11, Ft. Worth, TX (Oral).
26. Slosser, J. E. and **M. N. Parajulee**. 2000. Evaluation of food sprays and relay strip crops for enhancing biological control of bollworms and cotton aphids in cotton. Entomological Society of America Southwestern Branch Meeting, February 9-11, Ft. Worth, TX (Oral).
28. Slosser, J. E. and **M. N. Parajulee**. 2001. Factors contributing to late season cotton aphid infestations. Beltwide Cotton Conferences, January 9-13, Anaheim, CA (Oral).
29. **Parajulee, M. N.** and J. E. Slosser. 2001. Cotton aphid biology as affected by cyhalothrin (Karate): Aphid or host plant modification? Beltwide Cotton Conferences, January 9-13, Anaheim, CA (Oral).
30. **Parajulee, M. N.**, J. E. Slosser, and L. T. Wilson. 2001. Cotton aphid population dynamics modeling: A distributed-delay approach. Annual meeting of Entomological Society of America, December 9-12, San Diego, CA (Oral).
31. **Parajulee, M. N.**, J. E. Slosser, and D. G. Bordovsky. 2002. Planting patterns affecting the abundance of cotton aphids and whiteflies in dryland cotton. Beltwide Cotton Conferences, January 8-12, Atlanta, GA (Oral).
32. Slosser, J. E., **M. N. Parajulee**, D. L. Hendrix, T. J. Henneberry, and D. G. Bordovsky. 2002. Relationship between numbers of cotton aphids per leaf and sticky lint. Beltwide Cotton Conferences, January 8-12, Atlanta, GA (Oral).
33. Hendrix, D. L., T. J. Henneberry, J. E. Slosser, and **M. N. Parajulee**. 2002. Bandedwinged whitefly honeydew: Another possible source of cotton stickiness. Beltwide Cotton Conferences, January 8-12, Atlanta, GA (oral).
34. Sappington, T. W., A. D. Brashears, S. C. Carroll, M. D. Arnold, **M. N. Parajulee**, J. W. Norman, Jr., and A. E. Knutson. 2002. Potential for boll weevil transport to gins on modules. Beltwide Cotton Conferences, January 8-12, Atlanta, GA (Oral).
35. Brashears, A. D., R. V. Baker, T. W. Sappington, S. C. Carroll, M. D. Arnold, **M. N. Parajulee**. 2002. Boll weevil survival in baled lint. Beltwide Cotton Conferences, January 8-12, Atlanta, GA (Oral).
36. **Parajulee, M. N.**, M. D. Arnold, and S. C. Carroll. 2002. Predator-prey dynamics in late season cotton in the Texas High Plains. Entomological Society of America Southwestern Branch Annual Meeting, February 24-27, Guanajuato, Mexico (Poster).
37. Carroll, S. C., D. R. Rummel, C. Britton, R. Mitchell, M. D. Arnold, **M. N. Parajulee**, B. Racher, and R. K. Haldenby. 2002. Burning CRP grasses to reduce boll weevil overwintering potential. Entomological Society of America Southwestern Branch Annual Meeting, February 24-27, Guanajuato, Mexico (Poster).
38. Arnold, M. D., D. R. Rummel, J. W. Smith, Jr., S. C. Carroll, and **M. N. Parajulee**. 2002. Natural mortality of *Helicoverpa zea* in Texas High Plains cotton. Entomological Society of America Southwestern Branch Annual Meeting, February 24-27, Guanajuato, Mexico (Poster).
39. **Parajulee, M. N.**, M. D. Arnold, S. C. Carroll, A. M. Cranmer, P. L. Bommireddy, and R. B. Shrestha. 2002. Host plant sequence of *Lygus* bugs in Texas cotton. Annual meeting of the Entomological Society of America, November 17-20, Ft. Lauderdale, FL (Poster).
40. Shrestha, R. B., **M. N. Parajulee**, M. D. Arnold, S. C. Carroll, A. M. Cranmer. 2002. Cotton insect predators in conventional and conservation tillage systems. Annual Meeting of the Entomological Society of America, November 17-20, Ft. Lauderdale, FL (Poster).
41. Bommireddy, P. L., **M. N. Parajulee**, D. O. Porter. 2002. Influence of irrigation methods on *Lygus* population abundance. Annual meeting of the Entomological Society of America, November 17-20, Ft. Lauderdale, FL (Poster).
42. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, M. D. Arnold, and R. B. Shrestha. 2002. Cotton cultivars and planting date window: Do *Lygus* bugs care? Annual meeting of the Entomological Society of America, November 17-20, Ft. Lauderdale, FL (Poster).

43. Zhao, B., T. W. Phillips, and **M. N. Parajulee**. 2002. Species-specific PCR-based identification of eggs and larvae of *Helicoverpa zea* and *Heliothis virescens*. Annual meeting of the Entomological Society of America, November 17-20, Ft. Lauderdale, FL (Oral).
44. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, R. B. Shrestha, S. C. Carroll, and M. D. Arnold. 2003. Influence of cotton cultivar and planting date on fleahopper and *Lygus* populations in Texas High Plains. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral presentation for student paper competition).
45. Bommireddy, P. L., **M. N. Parajulee**, D. O. Porter, R. B. Shrestha, A. M. Cranmer, M. D. Arnold, and S. C. Carroll. 2003. Effect of irrigation regimes on insect populations in Texas High Plains cotton. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral presentation for student paper competition).
46. Shrestha, R. B., **M. N. Parajulee**, A. M. Cranmer, P. L. Bommireddy, S. C. Carroll, and M. D. Arnold. 2003. Seasonal abundance patterns of thrips and fleahoppers in Texas High Plains cotton. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral presentation for student paper competition).
47. **Parajulee, M. N.**, M. D. Arnold, S. C. Carroll, A. M. Cranmer, R. B. Shrestha, and P. L. Bommireddy. 2003. *Lygus* abundance on wild hosts: A survey across the Texas High Plains. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral).
48. **Parajulee, M. N.** and R. B. Shrestha. 2003. Rate of consumption of cotton aphids by Convergent lady beetle in the laboratory. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral).
49. Carroll, S. C., **M. N. Parajulee**, R. B. Shrestha, and M. D. Arnold. 2003. Beet armyworm population abundance in cotton as affected by pigweed. Beltwide Cotton Conference, January 6-10, Nashville, TN (Poster).
50. Arnold, M. D., **M. N. Parajulee**, S. C. Carroll, A. D. Brashears, and T. W. Sappington. 2003. Survival of boll weevils trapped under cotton module tarps. Beltwide Cotton Conference, January 6-10, Nashville, TN (Poster).
51. Slosser, J. E., E. P. Boring, and **M. N. Parajulee**. 2003. Distribution of *Lygus* spp. in the northern Texas Rolling Plains. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral).
52. Greenberg, S. M., A. T. Showler, T. W. Sappington, J. M. Bradford, S. Carroll, M. Arnold, **M. Parajulee**, A. Brashears, and A. Knutson. 2003. Postharvest mortality of boll weevils relative to tillage in fallen cotton squares and bolls. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral).
53. Sappington, T. W., A. D. Brashears, **M. N. Parajulee**, S. C. Carroll, M. D. Arnold, J. W. Norman, A. E. Knutson, and R. V. Baker. 2003. Modules, gin, and the threat of boll weevil introduction: What we know so far. Beltwide Cotton Conference, January 6-10, Nashville, TN (Oral).
54. **Parajulee, M. N.**, M. D. Arnold, S. C. Carroll, A. M. Cranmer, R. B. Shrestha, and P. L. Bommireddy. 2003. Noncotton host source of *Lygus* bugs in the Texas High Plains. ESA Southwestern Branch Meeting, February 24-27, Oklahoma City, OK (Poster).
55. Carroll, S. C., **M. N. Parajulee**, R. B. Shrestha, and M. D. Arnold. 2003. Influence of pigweed on beet armyworm activity in cotton. Entomological Society of America Southwestern Branch Meeting, February 24-27, Oklahoma City, OK (Poster).
56. Arnold, M. D., **M. N. Parajulee**, and A. M. Cranmer. 2003. Influence of planting date and cultivar on cotton arthropod predators. Entomological Society of America Southwestern Branch Meeting, February 24-27, Oklahoma City, OK (Poster).
57. Shrestha, R. B., **M. N. Parajulee**, A. M. Cranmer, P. L. Bommireddy, S. C. Carroll, and M. D. Arnold. 2003. Influence of conservation tillage system on cotton arthropod predators. Entomological Society of America Southwestern Branch Meeting, February 24-27, Oklahoma City, OK (Poster).
58. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, R. B. Shrestha, S. C. Carroll, and M. D. Arnold. 2003. Seasonal activity patterns of *Lygus* species as affected by planting date and cotton cultivar. Entomological Society of America Southwestern Branch Meeting, February 24-27, Oklahoma City, OK (Poster).

59. Bommireddy, P. L., **M. N. Parajulee**, D. O. Porter, R. B. Shrestha, A. M. Cranmer, M. D. Arnold, and S. C. Carroll. 2003. Influence of irrigation regime on seasonal abundance patterns of *Lygus* species in cotton. Entomological Society of America Southwestern Branch Meeting, February 24-27, Oklahoma City, OK (Poster).
60. Ge, F. and **M. N. Parajulee**. 2003. Effect of cotton-mung bean intercropping on seasonal activity of cotton arthropods. Entomological Society of America Southwestern Branch Meeting, February 24-27, Oklahoma City, OK (Poster).
61. **Parajulee, M. N.**, J. E. Slosser, and L. T. Wilson. 2004. Cotton aphid population dynamics modeling. Beltwide Cotton Conference, January 6-10, San Antonio, TX (Oral).
62. **Parajulee, M. N.** and A. P. Sapkota. 2004. Development and reproduction of cotton aphids in the field. Beltwide Cotton Conferences, January 6-10, San Antonio, TX (Poster).
63. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, and R. B. Shrestha. 2004. Use of COTMAN in insect management research. Beltwide Cotton Conferences, January 6-10, San Antonio, TX (Poster).
64. Bommireddy, P. L., **M. N. Parajulee**, and D. O. Porter. 2004. Life history characteristics of *Lygus elisus* in the laboratory. Beltwide Cotton Conferences, January 6-10, San Antonio, TX (Oral).
65. Shrestha, R. B., **M. N. Parajulee**, and C. Blanco. 2004. Functional response of selected cotton arthropod predators to bollworm eggs in the laboratory. Beltwide Cotton Conference, January 6-10, San Antonio, TX (Oral).
66. Carroll, S. C., **M. N. Parajulee**, and M. D. Arnold. 2004. Effect of pigweed on beet armyworm activity in cotton. Beltwide Cotton Conference, January 6-10, San Antonio, TX (Poster).
67. Arnold, M. D., **M. N. Parajulee**, and A. M. Cranmer. 2004. Cultural practices affecting seasonal abundance of selected cotton arthropod predators. Beltwide Cotton Conference, January 6-10, San Antonio, TX (Poster).
68. Slosser, J., W. Pinchak, **M. Parajulee**, D. Hendrix, and T. Henneberry. 2004. Influence of cotton leaf sugars on cotton aphid populations. Beltwide Cotton Conferences, January 6-10, San Antonio, TX (Oral).
69. Blanco, C., L. Adams, J. Gore, D. Hardee, M. Mullen, J. R. Bradley, J. van Duyn, P. Ellsworth, J. K. Green, D. Johnson, R. Luttrell, G. Studebaker, A. Herbert, M. Karner, R. Leonard, B. Lewis, J. López, Jr., D. Parker, M. Williams, R. D. Parker, M. Roof, R. Sprenkel, S. Stewart, J. R. Weeks, S. Carroll, **M. Parajulee**, P. Roberts, and J. Ruberson. 2004. *Bacillus thuringiensis* resistance monitoring program for tobacco budworm and bollworm in 2003. Beltwide Cotton Conference, January 6-10, San Antonio, TX (Oral).
70. Bronson, K. F., J. W. Keeling, J. D. Booker, J. P. Bordovsky, **M. N. Parajulee**, T. A. Wheeler, and R. K. Boman. 2004. Variable rate nitrogen and water for irrigated cotton in the southern High Plains. Beltwide Cotton Conference, January 6-10, San Antonio, TX (Oral).
71. Bommireddy, P. L., **M. N. Parajulee**, and D. O. Porter. 2004. Effect of constant temperature on life history characteristics of *Lygus elisus* in the laboratory. Entomological Society of America Southwestern Branch Meeting, February 23-26, Lubbock, TX (awarded 3<sup>rd</sup> place in student oral presentation for the President's prize).
72. Shrestha, R. B., **M. N. Parajulee**, and C. Blanco. 2004. Predation efficiency of selected cotton arthropod predators to bollworm eggs. Entomological Society of America Southwestern Branch Meeting, February 23-26, Lubbock, TX (student oral competition for the President's prize).
73. Shrestha, R. B. and **M. N. Parajulee**. 2004. Influence of temporal abundance and spatial patterns of thrips and fleahoppers on effectiveness of sampling methods in Texas High Plains cotton. Entomological Society of America SW Branch Meeting, February 23-26, Lubbock, TX (Oral).
74. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, and R. B. Shrestha. 2004. Use of COTMAN expert system software in cotton insect management. ESA-SWB Meeting, February 23-26, Lubbock, TX (student poster competition for the President's prize).
75. Sapkota, A. P. and **M. N. Parajulee**. 2004. Cotton aphid population dynamics in the field. Entomological Society of America Southwestern Branch Meeting, February 23-26, Lubbock, TX (student poster presentation competition for the President's prize).

76. **Parajulee, M. N.**, R. B. Shrestha, and J. E. Leser. 2004. Effect of tillage, planting date, and cultivar on western flower thrips seasonal dynamics patterns in cotton. Entomological Society of America Annual Meeting, November 14-17, Salt Lake City, UT (Poster).
77. Carroll, S. C., **M. N. Parajulee**, and M. D. Arnold. 2005. *Lygus* survey in the Texas High Plains: Species composition and host-plant sequencing. Beltwide Cotton Conference, January 4-7, New Orleans, LA (Oral).
78. Barman, A. K., **M. N. Parajulee**, and R. B. Shrestha. 2005. Influence of planting date and cultivar on *Lygus* and cotton fleahopper activity in cotton. Beltwide Cotton Conference, January 4-7, New Orleans, LA (Oral).
79. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, M. D. Arnold, and S. C. Carroll. 2005. When is a cotton boll safe from *Lygus hesperus* damage? Beltwide Cotton Conf., January 4-7, New Orleans, LA (Oral).
80. Shrestha, R. B., and **M. N. Parajulee**. 2005. Effect of tillage system and planting date on seasonal abundance of predacious ground beetles in cotton. Beltwide Cotton Conference, January 4-7, New Orleans, LA (Oral).
81. **Parajulee, M. N.**, R. B. Shrestha, S. C. Carroll, P. L. Bommireddy, A. M. Cranmer, and K. F. Bronson. 2005. Variable rate of irrigation water and nitrogen: Potential of site-specific management of cotton aphids. Beltwide Cotton Conference, January 4-7, New Orleans, LA (Oral).
82. Blanco, C., M. Mullen, C. Abel, J. R. Bradley, P. Ellsworth, J. K. Green, A. Herbert, R. Leonard, J. D. López, R. Meagher, W. Moar, **M. Parajulee**, R. D. Parker, P. Roberts, J. Ruberson, R. Sprenkel, G. Studebaker, A. P. Teran, M. Williams, and J. van Duyn. 2005. *Bacillus thuringiensis* Cry1Ac resistance monitoring program for tobacco budworm and bollworm in 2004. Beltwide Cotton Conference, January 4-7, New Orleans, LA (Oral).
83. Slosser, J. E., **M. N. Parajulee**, and D. L. Hendrix. 2005. Bandedwinged whiteflies in the Texas Rolling Plains. Beltwide Cotton Conference, January 4-7, New Orleans, LA (Oral).
84. **Parajulee, M. N.**, A. K. Barman, J. F. Leser. 2005. Comparative susceptibility of *Lygus hesperus* (Hemiptera: Miridae) to selected insecticides in the Texas High Plains. Entomological Society of America Annual Meeting, December 15-18, Ft. Lauderdale, FL (Oral).
85. Barman, A. K. and M. N. **Parajulee**. 2005. Host preference of *Lygus hesperus*. Entomological Society of America Annual Meeting, December 15-18, Ft. Lauderdale, FL (Poster).
86. Shrestha, R. B., **M. N. Parajulee**, and S. C. Carroll. 2006. Optimization of ELISA procedure for *Lygus* marking and its application in *Lygus* movement study. Entomological Society of America Southwestern Branch Meeting, February 28-March 2, Austin, TX (oral).
87. Shrestha, R. B., **M. N. Parajulee**, and O. P. Perera. 2006. Construction of microsatellite enriched genomic DNA library of *Lygus hesperus*. Entomological Society of America Southwestern Branch Meeting, February 28-March 2, Austin, TX (oral).
88. Carroll, S. C. and **M. N. Parajulee**. 2006. Seasonal abundance of bollworm, tobacco budworm, and beet armyworm moths across the Texas Southern High Plains. Entomological Society of America Southwestern Branch Meeting, February 28-March 2, Austin, TX (poster).
89. Albeldaño, W. A., J. E. Slosser, and **M. N. Parajulee**. 2006. Identification of thrips from cotton in the Texas Rolling Plains. Entomological Society of America Southwestern Branch Meeting, February 28-March 2, Austin, TX (oral).
90. **Parajulee, M. N.**, A. K. Barman, S. C. Carroll. 2006. Host preference of *Lygus hesperus* : Laboratory and field evaluation. Entomological Society of America Annual Meeting, December 9-14, Indianapolis, IN (Poster).
91. Shrestha, R. B., **M. N. Parajulee**, and O. P. Perera. 2006. Development and characterization of SSR and ISSR markers for *Lygus hesperus* from Texas. Entomological Society of America Annual Meeting, December 9-14, Indianapolis, IN (oral).
92. Carroll, S. C., **M. N. Parajulee**, M. D. Arnold. 2007. Survey of lady beetles in the Texas High Plains. Entomological Society of America SW Branch Meeting, February 19-22, Corpus Christi, TX (poster).
93. Shrestha, R. B., and **M. N. Parajulee**. 2007. Morphometric comparison of *Lygus* species. Entomological Society of America SW Branch Meeting, February 19-22, Corpus Christi, TX (poster).

94. Shrestha, R. B., **M. N. Parajulee**, and O. P. Perera. 2007. Genetic diversity of *Lygus hesperus* in Texas. Entomological Society of America Annual Meeting, December 9-13, San Diego, CA (oral).
95. **Parajulee, M. N.**, A. K. Barman, R. B. Shrestha, C. Chen, A. Balachandran, and S. C. Carroll. 2007. Compensation of *Lygus* induced fruit loss in cotton. Entomological Society of America Annual Meeting, December 9-13, San Diego, CA. (Poster).
96. Barman, A. K., R. F. Medina, **M. N. Parajulee**, C. P. Suh, and C. G. Sansone. 2007. Host associated differentiation in cotton fleahopper, *Pseudatomoscelis seriatus*. Entomological Society of America Annual Meeting, December 9-13, San Diego, CA (oral).
97. Barman, A. K., R. F. Medina, **M. N. Parajulee**, C. G. Sansone, and C. P. Suh. 2008. Host associated genetic differentiation in cotton fleahopper, *Pseudatomoscelis seriatus* (Reuter), in Texas. Entomological Society of America Annual Meeting, November 16-19, Reno, NV (oral).
98. **Parajulee, M. N.** and C. Chen. 2008. *Lygus hesperus* host preference and suitability: Implications in landscape level pest management in Texas cotton. Entomological Society of America Annual Meeting, November 16-19, Reno, NV. (Poster).
99. Shrestha, R. B., **M. N. Parajulee**, and S. C. Carroll. 2008. Optimization of protein marking and detection system for the study of intercrop movement behavior of *Lygus hesperus* (Knight). Entomological Society of America Annual Meeting, November 16-19, Reno, NV (oral).
100. Carroll, S. C. and **M. N. Parajulee**. 2008. Bollworm, tobacco budworm, and beet armyworm moths: Seasonal abundance across Texas southern High Plains. Entomological Society of America Annual Meeting, November 16-19, Reno, NV (Poster).

#### **Regional/State Level**

1. **Parajulee, M. N.**, J. E. Slosser, and E. P. Boring. 2000. Relationship between bollworm moth activity and lunar cycle: Application in pest management. Entomology Science Conference, October 31-November 2, College Station, TX.
2. **Parajulee, M. N.** 2001. Develop a dynamic model for describing and predicting cotton aphid population development. Cotton Incorporated Texas State Support Committee Annual Project Review, December 11, Lubbock, TX.
3. **Parajulee, M. N.** 2002. Overview of cotton entomology research in Lubbock. Entomology Science Conference, October 29-November 1, College Station, TX.
4. **Parajulee, M. N.** 2002. Develop a dynamic model for describing and predicting cotton aphid population development. Cotton Incorporated Texas State Support Committee Annual Project Review, December 17, Lubbock, TX.
5. **Parajulee, M. N.** 2003. Develop a dynamic model for describing and predicting cotton aphid population development. Cotton Incorporated Texas State Support Committee Annual Project Review, December 10-11, College Station, TX.
6. **Parajulee, M. N.** 2003. Factors affecting population abundance of *Lygus* species in Texas High Plains and development of *Lygus* sampling plan. Cotton Incorporated Texas State Support Committee Annual Project Review, December 10-11, College Station, TX.
7. **Parajulee, M. N.** 2003. Update on *Lygus* research in the Texas High Plains. Entomology Science Conference, October 29-November 1, College Station, TX.
8. **Parajulee, M. N.** 2004. Discussion on plant bug issues in Texas. Entomology Science Conference, October 26-28, College Station, TX.
9. **Parajulee, M. N.** 2004. Factors affecting population abundance of *Lygus* species in Texas High Plains and development of *Lygus* sampling plan. Cotton Incorporated Texas State Support Committee Annual Project Review, December 14-15, Lubbock, TX.
10. **Parajulee, M. N.** 2005. Validation of new COTMAN™ compensation capacity value for the Texas High Plains using plant bug induced square damage. Cotton Incorporated Texas State Support Committee Annual Project Review, December 13-14, Lubbock, TX.

11. **Parajulee, M. N.** 2005. *Lygus hesperus*: Host plant sequencing and host preference. Entomology Science Conference, October 26-28, College Station, TX.
12. **Parajulee, M. N.** and S.C. Carroll. 2006. Validation of new COTMAN™ compensation capacity value for the Texas High Plains using plant bug induced square damage. Cotton Incorporated Texas State Support Committee Annual Project Review, December 13-14, Lubbock, TX.
13. Barman, A. K., R. F. Medina, **M. N. Parajulee**, C. P. Suh, and C. G. Sansone. 2007. Host associated differentiation in cotton fleahopper, *Pseudatomoscelis seriatus*. Entomology Science Conference, November 7-9, College Station, TX.
14. **Parajulee, M. N.**, S. C. Carroll, and D. L. Kerns. 2007. An overview of the Cotton Entomology Research Program at the Lubbock Center. Entomology Science Conference, November 7-9, College Station, TX.
15. **Parajulee, M. N.** 2007. Validation of new COTMAN™ compensation capacity value for the Texas High Plains using plant bug induced square damage. Cotton Incorporated Texas State Support Committee Annual Project Review, December 4-5, Lubbock, TX.

## II. Publications:

### *Refereed journal articles*

1. **Parajulee, M. N.**, F. P. Neupane, and R. B. Thapa. 1989. Life and seasonal histories, host preference and control of the pulse beetle, *Callosobruchus maculatus* (L.) (Coleoptera: Bruchidae). *Journal of Institute of Agriculture and Animal Sciences* 10: 1-6.
2. Neupane, F. P., R. B. Thapa, and **M. N. Parajulee**. 1990. Life and seasonal histories of the Eri silkworm, *Samia cynthia ricini* Hutt. (Lepidoptera: Saturniidae), in Chitwan, Nepal. *Journal of Institute of Agriculture and Animal Sciences* 11: 113-120.
3. **Parajulee, M. N.** and G. R. DeFoliart. 1992. A simple model of heat supplementation for cricket mass-rearing in the absence of controlled-temperature equipment in developing countries. *Journal of Institute of Agriculture and Animal Sciences* 13: 95-98.
4. **Parajulee, M. N.** and T. W. Phillips. 1992. Laboratory rearing and field observations of *Lyctocoris campestris* (F.) (Heteroptera: Anthocoridae), a predator of stored-product insects. *Annals of the Entomological Society of America* 85: 736-743.
5. **Parajulee, M. N.**, G. R. DeFoliart, and D. B. Hogg. 1993. Model for use in mass-production of *Acheta domesticus* (L.) (Orthoptera: Gryllidae) as food. *Journal of Economic Entomology* 86: 1424-1428.
6. **Parajulee, M. N.** and T. W. Phillips. 1993. Effect of prey species on the development and reproduction of *Lyctocoris campestris* (F.) (Heteroptera: Anthocoridae). *Environmental Entomology* 22: 1035-1042.
7. **Parajulee, M. N.**, T. W. Phillips, and D. B. Hogg. 1994. Functional response of *Lyctocoris campestris* (F.) adults: Effects of predator sex, prey type, and experimental habitat. *Biological Control* 4: 80-87.
8. **Parajulee, M. N.** and T. W. Phillips. 1995. Survivorship and cannibalism in *Lyctocoris campestris* (Hemiptera: Anthocoridae): Effects of density, prey availability, and temperature. *Journal of Entomological Science* 30: 1-8.
9. **Parajulee, M. N.** and T. W. Phillips. 1995. Seasonal abundance and spatial patterns of the predator *Lyctocoris campestris* in stored corn. *Entomologia Experimentalis et Applicata* 75: 33-42.
10. Phillips, T. W., **M. N. Parajulee**, and D. K. Weaver. 1995. Toxicity of terpenes secreted by the predator *Xylocoris flavipes* (Reuter) to *Tribolium castaneum* (Herbst) and *Oryzaephilus surinamensis* (L.). *Journal of Stored-Product Research* 31: 131-138.
11. **Parajulee, M. N.**, T. W. Phillips, J. E. Throne, and E. V. Nordheim. 1995. Effects of constant temperatures and relative humidities on development, survival and reproduction of *Lyctocoris campestris*. *Environmental Entomology* 24: 889-898.
12. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, and P. J. Trichilo. 1996. Climatic data-based analysis of boll weevil overwintering survival and spring emergence. *Environmental Entomology* 25: 882-894.

13. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, P. J. Trichilo, J. E. Slosser, and T. W. Fuchs. 1997. Relationship between ambient and leaf litter temperatures in boll weevil overwintering habitats. *Environmental Entomology* 26: 135-141.
14. **Parajulee, M. N.**, J. E. Slosser, R. Montandon, S. L. Dowhower, and W. E. Pinchak. 1997. Rangeland grasshoppers (Orthoptera: Acrididae) associated with mesquite and juniper habitats in the Texas Rolling Plains. *Environmental Entomology* 26: 528-536.
15. **Parajulee, M. N.**, R. Montandon, and J. E. Slosser. 1997. Relay intercropping to enhance predators of the cotton aphids in Texas cotton. *International Journal of Pest Management* 43: 227-232.
16. **Parajulee, M. N.**, J. E. Slosser, and E. P. Boring, III. 1998. Seasonal activity of *Helicoverpa zea* and *Heliothis virescens* (Lepidoptera: Noctuidae) detected by pheromone traps in the Rolling Plains of Texas. *Environmental Entomology* 27: 1203-1219.
17. **Parajulee, M. N.** and J. E. Slosser. 1999. Evaluation of potential relay strip crops for predator enhancement in Texas cotton. *International Journal of Pest Management* 45: 275-286.
18. Slosser, J. E., **M. N. Parajulee**, and D. G. Bordovsky. 2000. Evaluation of food sprays and relay strip crops for enhancing biological control of bollworms and cotton aphids in cotton. *International Journal of Pest Management* 46: 267-275.
19. Slosser, J. E., T. R. Moore, and **M. N. Parajulee**. 2000. Summer flight activity patterns of *Tabanus abactor* Philip in the Texas Rolling Plains. *Southwestern Entomologist* 25: 185-190.
20. Throne, J. E., **M. N. Parajulee**, and T. W. Phillips. 2000. Computer model for simulating population dynamics of the predator *Lyctocoris campestris* (Heteroptera: Anthocoridae) in stored shelled corn. *Environmental Entomology* 29: 1236-1243.
21. Carroll, S. C., D. R. Rummel, T. W. Fuchs, J. E. Slosser, M. D. Arnold, **M. N. Parajulee**, L. T. Wilson, and J. E. Huston. 2001. Influence of adult boll weevil diet on winter survival and spring-summer emergence. *Southwestern Entomologist* 26: 35-48.
22. **Parajulee, M. N.** and J. E. Slosser. 2001. Effect of ethephon on efficacy of glandure-baited pheromone traps in surveying fall and spring populations of boll weevil (Coleoptera: Curculionidae). *Environmental Entomology* 30: 64-69.
23. **Parajulee, M. N.**, J. E. Slosser, S. C. Carroll, and D. R. Rummel. 2001. A model for predicting boll weevil (Coleoptera: Curculionidae) overwintering survivorship. *Environmental Entomology* 30: 550-555.
24. Slosser, J. E., **M. N. Parajulee**, G. B. Idol, and D. R. Rummel. 2001. Cotton aphid response to irrigation and crop chemical applications. *Southwestern Entomologist* 26: 1-14.
25. Slosser, J. E., **M. N. Parajulee**, D. L. Hendrix, T. J. Henneberry, and D. R. Rummel. 2001. Relationship between *Aphis gossypii* (Homoptera: Aphididae) and sticky lint. *Journal of Economic Entomology* 95: 299-306.
26. **Parajulee, M. N.** and J. E. Slosser. 2003. Potential of yellow sticky traps for lady beetle survey in cotton. *Journal of Economic Entomology* 96: 239-245.
27. **Parajulee, M. N.**, P. W. Kidd, D. R. Rummel, and W. P. Morrison. 2003. Aerial movements of the cotton aphid, *Aphis gossypii* Glover (Homoptera: Aphididae), and discovery of male morphs in the Texas High Plains. *Southwestern Entomologist* 28: 241-247.
28. **Parajulee, M. N.**, D. R. Rummel, M. D. Arnold, and S. C. Carroll. 2004. Long-term seasonal abundance of *Helicoverpa zea* and *Heliothis virescens* (Lepidoptera: Noctuidae) moths in the Texas High Plains. *Journal of Economic Entomology* 97: 668-677.
29. Nansen, C., T. W. Phillips, **M. N. Parajulee**, and R. A. Franqui-Rivera. 2004. Spatial distribution patterns of *Plodia interpunctella* in a corn storage facility – comparison of direct and indirect sampling procedures. *Journal of Stored-Product Research* 40: 151-168.
30. Slosser, J. E., **M. N. Parajulee**, D. L. Hendrix, T. J. Henneberry, and W. E. Pinchak. 2004. Cotton aphid (Homoptera: Aphididae) abundance in relation to cotton leaf sugars. *Environmental Entomology* 33: 690-699.

31. Sappington, T. W., A. D. Brashears, **M. N. Parajulee**, S. C. Carroll, M. D. Arnold, J. W. Norman, Jr., and A. E. Knutson. 2004. Potential for transport of boll weevils (Coleoptera: Curculionidae) to the cotton gin within cotton modules. *Journal of Economic Entomology* 97: 934-940.
32. Du, L., F. Ge, S. Zhu, and **M. N. Parajulee**. 2004. Effect of cotton cultivar on development and reproduction of *Aphis gossypii* (Homoptera: Aphididae) and its predator *Propylaea japonica* (Coleoptera: Coccinellidae) through the food chain. *Journal of Economic Entomology* 97: 1278-1283.
33. Sappington, T. W., A. D. Brashears, **M. N. Parajulee**, S. C. Carroll, M. D. Arnold, and R. V. Baker. 2004. Boll weevil (Coleoptera: Curculionidae) survival through the seed cotton cleaning process in the cotton gin. *Journal of Economic Entomology* 97: 1323-1329.
34. Sappington, T. W., A. D. Brashears, **M. N. Parajulee**, S. C. Carroll, M. D. Arnold, and R. V. Baker. 2004. Boll weevil (Coleoptera: Curculionidae) survival through cotton gin trash fans. *Journal of Economic Entomology* 97: 1612-1618.
35. Sappington, T. W., A. D. Brashears, **M. N. Parajulee**, S. C. Carroll, M. D. Arnold, and R. V. Baker. 2004. Potential for escape of live boll weevils (Coleoptera: Curculionidae) into cottonseed, motes, and cleaned lint at the cotton gin. *Journal of Economic Entomology* 97: 1773-1781.
36. Bommireddy, P. L., **M. N. Parajulee**, and D. O. Porter. 2004. Influence of constant temperatures on life history of immature *Lygus elisus* (Hemiptera: Miridae). *Environmental Entomology* 33: 1549-1553.
37. Men, X. Y., F. Ge, E. N. Yardim, and **M. N. Parajulee**. 2004. Evaluation of winter wheat as a potential relay crop for enhancing biological control of cotton aphids in seedling cotton. *BioControl* 49: 701-714.
38. Chen, F., F. Ge, and **M. N. Parajulee**. 2005. Impact of elevated CO<sub>2</sub> on tritrophic interaction of *Gossypium hirsutum*, *Aphis gossypii*, and *Leis axyridis*. *Environmental Entomology* 34: 37-46.
39. Men, X. Y., F. Ge, E. N. Yardim, and **M. N. Parajulee**. 2005. Behavioral response of *Helicoverpa armigera* (Lepidoptera: Noctuidae) to cotton with and without expression of the Cry1Ac  $\delta$ -endotoxin protein of *Bacillus thuringiensis* Berliner. *Journal of Insect Behavior* 18: 33-50.
40. Chen, F., G. Wu, F. Ge, **M. N. Parajulee**, and R. B. Shrestha. 2005. Effects of elevated CO<sub>2</sub> and transgenic Bt cotton on plant chemistry, performance, and feeding of an insect herbivore, the cotton bollworm. *Entomologia Experimentalis et Applicata* 115: 341-350.
41. Ge, F., F. Chen, **M. N. Parajulee**, and E. N. Yardim. 2005. Quantification of diapausing fourth generation and suicidal fifth generation cotton bollworm, *Helicoverpa armigera* (Hübner), in cotton and corn in northern China. *Entomologia Experimentalis et Applicata* 116: 1-7.
42. Slosser, J. E., C. L. Cole, E. P. Boring, III, **M. N. Parajulee**, and G. B. Idol. 2005. Thrips species associated with cotton in the northern Texas Rolling Plains. *Southwestern Entomologist* 30: 1-7.
43. Sappington, T. W., M. D. Arnold, A. D. Brashears, **M. N. Parajulee**, S. C. Carroll, A. E. Knutson, and J. W. Norman, Jr. 2006. Dispersal of boll weevils (Coleoptera: Curculionidae) from cotton modules before ginning. *Journal of Economic Entomology* 99: 67-75.
44. **Parajulee, M. N.**, R. B. Shrestha, and J. F. Leser. 2006. Dispersion patterns and fixed precision sequential sampling plans for western flower thrips (Thysanoptera: Thripidae) and cotton fleahoppers (Hemiptera: Miridae) in cotton. *Journal of Economic Entomology* 99:568-577.
45. **Parajulee, M. N.**, R. B. Shrestha, J. F. Leser, D. B. Wester, and C. Blanco. 2006. Evaluation of the functional response of selected cotton arthropod predators on bollworm eggs in the laboratory and effect of temperature on their predation efficiency. *Environmental Entomology* 35:379-386.
46. Bronson, K.F., J. D. Booker, J. P. Bordovsky, J. W. Keeling, T. A. Wheeler, R. K. Boman, **M. N. Parajulee**, E. Segarra, and R. L. Nichols. 2006. Site-specific irrigation and nitrogen management for cotton production in the Southern High Plains. *Agronomy Journal* 98:212-219.
47. **Parajulee, M. N.**, R. B. Shrestha, and J. F. Leser. 2006. Influence of tillage, planting date, and Bt cultivar on seasonal abundance and within-plant distribution patterns of thrips and cotton fleahoppers in cotton. *International Journal of Pest Management* 52: 249-260.

48. Slosser, J. E., E. P. Boring, III, and **M. N. Parajulee**. 2006. A survey of *Lygus* spp. In cotton, alfalfa, and roadside weeds in the northern Texas Rolling Plains. *Southwestern Entomologist* 31: 91-96.
49. Amdor, B. A., J. E. Slosser, G. B. Idol, **M. N. Parajulee**, W. E. Pinchak, R. J. Ansley, and M. K. Owens. 2006. Population dynamics and response to mesquite pod supplementation for *Algarobius bottimeri* and *Mimosestes amicus*. *Southwestern Entomologist* 31: 103-112.
50. Chen, F., G. Wu, **M. N. Parajulee**, and F. Ge. 2007. Impact of elevated CO<sub>2</sub> on the third trophic level: A predator *Harmonia axyridis* and a parasitoid *Aphidius picipes*. *Biocontrol Science and Technology* 17: 313-324.
51. Chen, F., G. Wu, **M. N. Parajulee**, and F. Ge. 2007. Long-term impacts of elevated CO<sub>2</sub> and transgenic Bt cotton on performance and feeding of three generations of cotton bollworm. *Entomologia Experimentalis et Applicata* 124: 27-35.
52. **Parajulee, M. N.** 2007. Influence of constant temperatures on life history parameters of the cotton aphid, *Aphis gossypii*, infesting cotton. *Environmental Entomology* 36: 666-672.
53. Shrestha, R. B., **M. N. Parajulee**, O. P. Perera, B. E. Scheffler, and L. D. Densmore. 2007. Characterization of microsatellite loci in the western tarnished plant bug, *Lygus hesperus* Knight (Hemiptera: Miridae). *Molecular Ecology Notes* Primer Note 1-3.
54. Albeldaño, W. A., J. E. Slosser, and **M. N. Parajulee**. 2008. Identification of thrips species on cotton in the Texas Rolling Plains. *Southwestern Entomologist* 33: 43-51.
55. Matis, T. I., **M. N. Parajulee**, J. H. Matis, and R. B. Shrestha. 2008. Analysis of cotton aphid population dynamics data based on a cumulative size model. *Journal of Agriculture and Forestry Ecology* 10: 1-8.
56. Feng, G., S. Zhu, Y. Sun, L. Du, **M. Parajulee**, L. Kang, and F. Ge. 2008. Interactive effects of elevated CO<sub>2</sub> and cotton cultivar on tritrophic interaction of *Gossypium hirsutum*, *Aphis gossypii*, and *Propylaea japonica*. *Environmental Entomology* 37: 29-37.
57. Nansen, C., J. James, D. Bowling, **M. N. Parajulee**, and P. Porter. 2008. Ecological study of the larger black flower beetle in cotton gin trash. *Environmental Entomology* 37 (5): xx-xx (in press).
58. Wheeler, T. A., J. F. Leser, M. D. Arnold, **M. N. Parajulee**, and B. G. Mullinix. 2008. Frequency of enhanced degradation of aldicarb on field soils from the High Plains of Texas. *Journal of Cotton Science* (in press).

#### Editor-Reviewed Journal Articles

59. **Parajulee, M. N.** and R. B. Shrestha. 2008. Morphometry of *Lygus* bugs: Implications in pest management. *Journal of Insect Science* 8: 49 (invited, not truly peer reviewed).
60. **Parajulee, M. N.**, R. B. Shrestha, and S. C. Carroll. 2008. Intercrop movement of *Lygus hesperus* in the Texas High Plains: Potential for landscape level management. *Journal of Insect Science* 8: 49 (invited, not truly peer reviewed).

#### Refereed Proceeding Papers

61. Matis, T. I., J. H. Matis, G. J. Michels, and **M. N. Parajulee**. 2007. Using the cumulative-size mechanistic model for analyzing insect data, pp. 23-38. Proceedings, Conference on Applied Statistics in Agriculture, Manhattan, KS.
62. **Parajulee, M. N.**, and A. K. Barman. 2008. Cotton compensation of *Lygus* induced square loss in a limited irrigation production regime. Proceedings, World Cotton Research Conference (CD).
63. Carroll, S. C., **M. N. Parajulee**, and M. D. Arnold. 2008. Survey of lady beetles (Coleoptera: Coccinellidae) found on Texas High Plains cotton, alfalfa and weeds. Proceeding, World Cotton Research Conference (CD).
64. Shrestha, R. B., **M. N. Parajulee**, and M. J. Grimson. 2008. SEM ultrastructure study of *Lygus hesperus* (Knight) (Hemiptera: Miridae). Proceedings, World Cotton Research Conference (CD).
65. Barman, A. K., R. F. Medina, **M. N. Parajulee**, C. P. Suh, and C. G. Sansone. 2008. Developing AFLP markers to study genetic differentiation of the cotton fleahopper, *Pseudatomoscelis seriatus* (Reuter) (Hemiptera: Miridae). Proceedings, World Cotton Research Conference (CD).

## Book chapters

1. **Parajulee, M. N.** and T. W. Phillips. 1994. Monitoring field populations of *Lyctocoris campestris*, a predator of stored grain insects: Assessment of different trap designs, pp. 429-434. In E. Highley, E. J. Wright, H. J. Banks, and B. R. Champ [eds.], Stored Product Protection, vol. 1. CAB International, Wallingford, UK.
2. **Parajulee, M. N.** and T. W. Phillips. 1994. Life history, predatory biology, and population ecology of *Lyctocoris campestris* (F.) (Heteroptera: Anthocoridae), pp. 1122-1131. In E. Highley, E. J. Wright, H. J. Banks, and B. R. Champ [eds.], Stored Product Protection, vol. 2. CAB International, Wallingford, UK.
3. **The Cotton Foundation.** 2007. The First 40 Days-The Most Critical Period in Cotton Production: Expert Recommendations of Best Management Practices for an Efficient, Cost-Effective Cotton Production System through Fruiting to Finish. National Cotton Council and The Cotton Foundation, Nashville, TN.

## Scientific Abstracts

1. **Parajulee, M. N.** and T. W. Phillips. 1992. Biology and field activity of *Lyctocoris campestris* (Heteroptera: Anthocoridae), a predator of stored-product insects, pp. 11-13. In D. S. Jayas, N.D.G. White, W. E. Muir, and R. N. Sinha [eds.], Proceedings, International Symposium on Stored-Grain Ecosystems. University of Manitoba, Winnipeg, Canada.
2. Throne, J. E., **M. N. Parajulee**, and T. W. Phillips. 2000. A simulation model for *Lyctocoris campestris*, a predator of stored-product insect pests, p. 1014. In D. L. Gazzoni [ed.], Proceedings, 21<sup>st</sup> International Congress of Entomology, Foz do Iguacu, Brazil, August 20-26, 2000. Embrapa Soja, Londrina, Brazil.
3. **Parajulee, M. N.**, D. R. Rummel, M. D. Arnold, and S. C. Carroll. 2004. Long-term seasonal abundance patterns of Heliothine species: Implications in pest management. The 15<sup>th</sup> International Plant Protection Congress, May 11-16, Beijing, China (Symposium Lead Organizer).
4. **Parajulee, M. N.** and R. B. Shrestha. 2004. Biological control of cotton aphids, *Aphis gossypii*, in cotton: Effectiveness of *Hippodamia convergens* and *Chrysoperla carnea*. The 22<sup>nd</sup> International Congress of Entomology, August 15-21, Brisbane, Australia (Symposium Lead Organizer) (Abstract).
5. Bommireddy, P. L., **M. N. Parajulee**, and D. O. Porter. 2004. Effect of constant temperature on life history characteristics of *Lygus elisus* in the laboratory. ESA Southwestern Branch Meeting Abstract, February 23-26, Lubbock, TX.
6. Shrestha, R. B., **M. N. Parajulee**, and C. Blanco. 2004. Predation efficiency of selected cotton arthropod predators to bollworm eggs. ESA Southwestern Branch Meeting Abstract, February 23-26, Lubbock, TX.
7. Shrestha, R. B. and **M. N. Parajulee**. 2004. Influence of temporal abundance and spatial patterns of thrips and fleahoppers on effectiveness of sampling methods in Texas High Plains cotton. ESA Southwestern Branch Meeting Abstract, February 23-26, Lubbock, TX.
8. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, and R. B. Shrestha. 2004. Use of COTMAN expert system software in cotton insect management. ESA Southwestern Branch Meeting Abstract, February 23-26, Lubbock, TX.
9. Sapkota, A. P. and **M. N. Parajulee**. 2004. Cotton aphid population dynamics in the field. ESA Southwestern Branch Meeting Abstract, February 23-26, Lubbock, TX.
10. Sapkota, A. P. and **M. N. Parajulee**. 2004. Cotton aphid population dynamics in the field. ESA Southwestern Branch Meeting Abstract, February 23-26, Lubbock, TX.
11. Chen, F., G. Wu, **M. N. Parajulee**, and G. Feng. 2007. Mechanism of the decrease in exogenous-toxin protein of transgenic Bt rice grown in elevated CO<sub>2</sub>: Dilution-effect hypothesis. International Annual Meeting of the American Society of Agronomy, November 4-8, New Orleans, LA.
12. Chen, C. and **M. N. Parajulee**. 2008. Laboratory life history study of *Lygus hesperus* on different hosts. ESA Southwestern Branch Meeting Abstract, February 23-26, Ft. Worth, TX.

13. Adhikari, M. B. and **M. N. Parajulee**. 2008. Relationship between cotton boll age and *Lygus* injury. ESA Southwestern Branch Meeting Abstract, February 23-26, Ft. Worth, TX.
14. **Parajulee, M. N.** 2008. Compensation of *Lygus*-induced fruit loss in cotton: Effect of plant phenological stage. ESA Pacific Branch Meeting Abstract (Invited), March 29-April 2, Napa, CA.

#### **Papers in Non-Refereed Proceedings**

1. **Parajulee, M. N.** and T. W. Phillips. 1992. Biology and field activity of *Lyctocoris campestris* (Heteroptera: Anthracoridae), a predator of stored-product insects, pp. 11-13. *In* D. S. Jayas, N. D. G. White, W. E. Muir, and R. N. Sinha [eds.], Proceedings, International Symposium on Stored-Grain Ecosystems. University of Manitoba, Winnipeg, Canada.
2. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, and P. J. Trichilo. 1995. Insulating values of different boll weevil overwintering habitats: Implications of using habitat versus ambient temperature in developing predictive models, pp. 1029-1031. Proceedings, Beltwide Cotton Conference, National Cotton Council, Memphis, TN.
3. **Parajulee, M. N.**, L. T. Wilson, S. Bozkurt, D. R. Rummel, S. C. Carroll, and P. J. Trichilo. 1996. Predicting boll weevil overwintering survival and spring emergence in the Rolling Plains of Texas, pp. 963-968. Proceedings, Beltwide Cotton Conference, National Cotton Council, Memphis, TN.
4. **Parajulee, M. N.** and J. E. Slosser. 1997. Potential relay strip crops for predator enhancement in cotton, pp. 1124-1127. Proceedings, Beltwide Cotton Conference, National Cotton Council, Memphis, TN.
5. **Parajulee, M. N.**, L. T. Wilson, D. R. Rummel, S. C. Carroll, P. J. Trichilo, J. E. Slosser, and T. W. Fuchs. 1997. Insulating abilities of six boll weevil overwintering habitats from the Rolling Plains of Texas, pp. 955-959. Proceedings, Beltwide Cotton Conference, National Cotton Council, Memphis, TN.
6. **Parajulee, M. N.** and J. E. Slosser. 1998. Evaluation of potential relay strip crops for predator enhancement in cotton, pp. 1104-1107. Proceedings, Beltwide Cotton Conference, National Cotton Council, Memphis, TN.
7. **Parajulee, M. N.**, J. E. Slosser, and D. G. Bordovsky. 1999. Cultural practices affecting the abundance of cotton aphids and beet armyworms in dryland cotton, pp. 1014-1016. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
8. Boring, E. P., **M. N. Parajulee**, and J. E. Slosser. 1999. Bollworm and budworm moth activity in the Texas Rolling Plains, pp. 1172-1175. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
9. **Parajulee, M. N.** and J. E. Slosser. 2000. Influence of boll weevil eradication on moth activity in the Texas Rolling Plains, pp. 1180-1182. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
10. Slosser, J. E., **M. N. Parajulee**, D. R. Rummel, and D. L. Hendrix. 2000. Management of cotton lint stickiness in Texas cotton, pp. 982-984. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
11. Slosser, J. E. and **M. N. Parajulee**. 2001. Factors contributing to late season cotton aphid infestations, pp. 955-957. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
12. **Parajulee, M. N.** and J. E. Slosser. 2001. Cotton aphid biology as affected by cyhalothrin (Karate): Aphid or host plant modification? pp. 957-959. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
13. **Parajulee, M. N.**, J. E. Slosser, and D. G. Bordovsky. 2002. Planting patterns affecting the abundance of cotton aphids and whiteflies in dryland cotton. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
14. Slosser, J. E., **M. N. Parajulee**, D. L. Hendrix, T. J. Henneberry, and D. G. Bordovsky. 2002. Relationship between numbers of cotton aphids per leaf and sticky lint. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
15. Hendrix, D. L., T. J. Henneberry, J. E. Slosser, and **M. N. Parajulee**. 2002. Bandedwinged whitefly honeydew: Another possible source of cotton stickiness. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.

16. Sappington, T. W., A. D. Brashears, S. C. Carroll, M. D. Arnold, **M. N. Parajulee**, J. W. Norman, Jr., and A. E. Knutson. 2002. Potential for boll weevil transport to gins on modules. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
17. Brashears, A. D., R. V. Baker, T. W. Sappington, S. C. Carroll, M. D. Arnold, **M. N. Parajulee**. 2002. Boll weevil survival in baled lint. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
18. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, R. B. Shrestha, S. C. Carroll, and M. D. Arnold. 2003. Influence of cotton cultivar and planting date on fleahopper and *Lygus* populations in Texas High Plains, pp. 1370-1371. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
19. Bommireddy, P. L., **M. N. Parajulee**, D. O. Porter, R. B. Shrestha, A. M. Cranmer, M. D. Arnold, and S. C. Carroll. 2003. Effect of irrigation regimes on insect populations in Texas High Plains cotton, pp. 1372-1374. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
20. Shrestha, R. B., **M. N. Parajulee**, A. M. Cranmer, P. L. Bommireddy, S. C. Carroll, and M. D. Arnold. 2003. Seasonal abundance patterns of thrips and fleahoppers in Texas High Plains cotton, pp. 1375-1380. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
21. **Parajulee, M. N.**, M. D. Arnold, S. C. Carroll, A. M. Cranmer, R. B. Shrestha, and P. L. Bommireddy. 2003. *Lygus* abundance on wild hosts: A survey across the Texas High Plains, pp. 970-973. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
22. **Parajulee, M. N.** and R. B. Shrestha. 2003. Rate of consumption of cotton aphids by Convergent lady beetle in the laboratory, pp. 1060-1063. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
23. Carroll, S. C., **M. N. Parajulee**, R. B. Shrestha, and M. D. Arnold. 2003. Beet armyworm population abundance in cotton as affected by pigweed, pp. 1537-1539. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
24. Arnold, M. D., **M. N. Parajulee**, S. C. Carroll, A. D. Brashears, and T. W. Sappington. 2003. Survival of boll weevils trapped under cotton module tarps, 1532-1536. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
25. Slosser, J. E., E. P. Boring, and **M. N. Parajulee**. 2003. Distribution of *Lygus* spp. in the northern Texas Rolling Plains, pp. 1440-1443. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
26. Greenberg, S. M., A. T. Showler, T. W. Sappington, J. M. Bradford, S. Carroll, M. Arnold, **M. Parajulee**, A. Brashears, and A. Knutson. 2003. Postharvest mortality of boll weevils relative to tillage in fallen cotton squares and bolls, pp. 1323-1328. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
27. Sappington, T. W., A. D. Brashears, **M. N. Parajulee**, S. C. Carroll, M. D. Arnold, J. W. Norman, A. E. Knutson, and R. V. Baker. 2003. Modules, gin, and the threat of boll weevil introduction: What we know so far, pp. 1329-1339. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
28. **Parajulee, M. N.**, J. E. Slosser, and L. T. Wilson. 2004. Cotton aphid population dynamics modeling, pp. 1584-1589. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
29. **Parajulee, M. N.** and A. P. Sapkota. 2004. Development and reproduction of cotton aphids in the field, pp. 1755-1758. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
30. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, P. L. Bommireddy, and R. B. Shrestha. 2004. Use of COTMAN in insect management research, pp. 1918-1922. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
31. Bommireddy, P. L., **M. N. Parajulee**, and D. O. Porter. 2004. Life history characteristics of *Lygus elisus* in the laboratory, pp. 1836-1839. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
32. Shrestha, R. B., **M. N. Parajulee**, and C. Blanco. 2004. Functional response of selected cotton arthropod predators to bollworm eggs in the laboratory, pp. 1652-1659. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.

33. Carroll, S. C., **M. N. Parajulee**, and M. D. Arnold. 2004. Effect of pigweed on beet armyworm activity in cotton, pp. 1771-1773. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
34. Arnold, M. D., **M. N. Parajulee**, and A. M. Cranmer. 2004. Cultural practices affecting seasonal abundance of selected cotton arthropod predators, pp. 1741-1743. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
35. Slosser, J., W. Pinchak, **M. Parajulee**, D. Hendrix, and T. Henneberry. 2004. Influence of cotton leaf sugars on cotton aphid populations, pp. 1552-1557. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
36. Blanco, C., L. Adams, J. Gore, D. Hardee, M. Mullen, J. R. Bradley, J. van Duyn, P. Ellsworth, J. K. Green, D. Johnson, R. Luttrell, G. Studebaker, A. Herbert, M. Karner, R. Leonard, B. Lewis, J. López, Jr., D. Parker, M. Williams, R. D. Parker, M. Roof, R. Sprenkel, S. Stewart, J. R. Weeks, S. Carroll, **M. Parajulee**, P. Roberts, and J. Ruberson. 2004. *Bacillus thuringiensis* resistance monitoring program for tobacco budworm and bollworm in 2003, pp. 1327-1331. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
37. Bronson, K. F., J. W. Keeling, J. D. Booker, J. P. Bordovsky, **M. N. Parajulee**, T. A. Wheeler, and R. K. Boman. 2004. Variable rate nitrogen and water for irrigated cotton in the southern High Plains, pp. 2543. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
38. **Parajulee, M. N.**, D. R. Rummel, M. D. Arnold, and S. C. Carroll. 2004. Long-term seasonal abundance patterns of Heliothine species: Implications in pest management, p. 638. Proceedings, 15<sup>th</sup> International Plant Protection Congress, Foreign Language Press, Beijing, China.
39. Ge, F., F. Chen, **M. N. Parajulee**, and E. N. Yardim. 2004. Differentiation and overwintering duration of the fourth generation cotton bollworm, *Helicoverpa armigera* (Hübner) in cotton and corn fields in northern China, p. 638. Proceedings, 15<sup>th</sup> International Plant Protection Congress, Foreign Language Press, Beijing, China.
40. Ge, F., L. Du, **M. N. Parajulee**, and C. A. Edwards. 2004. A quantitative method to evaluate the biological control efficiency of lady beetle, *Propylaea japonica*, on cotton aphid, *Aphis gossypii*, p. 637. Proceedings, 15<sup>th</sup> International Plant Protection Congress, Foreign Language Press, Beijing, China.
41. **Parajulee, M. N.** and R. B. Shrestha. 2004. Potential of convergent lady beetle, *Hippodamia convergens*, in suppressing cotton aphids, *Aphis gossypii*, p. 387. Proceedings, 15<sup>th</sup> International Plant Protection Congress, Foreign Language Press, Beijing, China.
42. **Parajulee, M. N.**, R. B. Shrestha, S. C. Carroll, P. L. Bommireddy, A. M. Cranmer, and K. F. Bronson. 2005. Variable rate of irrigation water and nitrogen: Potential of site-specific management of cotton aphids, pp. 1735-1742. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
43. Carroll, S. C., **M. N. Parajulee**, and M. D. Arnold. 2005. *Lygus* survey in the Texas High Plains: Species composition and host-plant sequencing, pp. 1754-1761. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
44. Barman, A. K., **M. N. Parajulee**, and R. B. Shrestha. 2005. Influence of planting date and cultivar on *Lygus* and cotton fleahopper activity in cotton, pp. 1779-1783. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
45. Cranmer, A. M., **M. N. Parajulee**, J. F. Leser, M. D. Arnold, and S. C. Carroll. 2005. When is a cotton boll safe from *Lygus hesperus* damage, pp. 1784-1786? Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
46. Shrestha, R. B., and **M. N. Parajulee**. 2005. Effect of tillage system and planting date on seasonal abundance of predacious ground beetles in cotton, pp. 1767-1773. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
47. Blanco, C., M. Mullen, C. Abel, J. R. Bradley, P. Ellsworth, J. K. Green, A. Herbert, R. Leonard, J. D. López, R. Meagher, W. Moar, **M. Parajulee**, R. D. Parker, P. Roberts, J. Ruberson, R. Sprenkel, G. Studebaker, A. P. Teran, M. Williams, and J. van Duyn. 2005. *Bacillus thuringiensis* Cry1Ac resistance monitoring program for tobacco budworm and bollworm in 2004, pp. 1210-1218. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.

48. Slosser, J. E., **M. N. Parajulee**, and D. L. Hendrix. 2005. Bandedwinged whiteflies in the Texas Rolling Plains, pp. 1243-1245. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
49. Barman, A. K., **M. N. Parajulee**, S. C. Carroll, and R. B. Shrestha. 2006. Evaluation of host preference of *Lygus hesperus*, pp. 1443-1446. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
50. Albeldaño, W. A., J. E. Slosser, **M. N. Parajulee**, D. G. Bordovsky, R. B. Shrestha, J. W. Sij. 2006. Influence of irrigation method and tillage system on cotton fleahopper activity, pp. 1495-1497. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
51. **Parajulee, M. N.** 2006. Sampling *Lygus* bugs in West Texas. Beltwide Cotton Conference *Lygus* Symposium, January 4-7, San Antonio, TX. Proceedings, Beltwide Cotton Conference, Memphis, TN, pp. 1597-1608 (Invited).
52. **Parajulee, M. N.** 2007. Host plant utilization for plant bug species in Texas High Plains cotton, pp. 25-33. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN (Invited).
53. Shrestha, R. B. and **M. N. Parajulee**. 2007. Morphometric analysis of *Lygus* bugs from Texas, pp. 1693-1699. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
54. Barman, A. K., **M. N. Parajulee**, and R. B. Shrestha. 2007. Evaluation of compensatory ability of cotton to fruit loss by *Lygus hesperus* in the Texas High Plains, pp. 1700-1703. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
55. **Parajulee, M. N.**, A. K. Barman, and S. C. Carroll. 2007. Effect of host plants on seasonal abundance of *Lygus* bugs in the Texas High Plains, pp. 399-404. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
56. Chen, C., A. K. Barman, **M. N. Parajulee**. 2007. Cotton response to early square loss by the cotton fleahopper in the Texas High Plains, pp. 1662-1669. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
57. **Parajulee, M. N.**, A. K. Barman, and C. Chen. 2007. Use of COTMAN in cotton compensation studies in the Texas High Plains, pp. 102-104. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
58. Carroll, S. C., **M. N. Parajulee**, and M. D. Arnold. 2008. Host preference survey of stink bugs on the Texas High Plains cotton, alfalfa and prevalent weeds, pp. 1371-1377. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
59. Balachandran, A., D. L. Kerns, and **M. N. Parajulee**. 2008. Residual activity of selected insecticides on *Lygus hesperus* in cotton, pp. 1100-1105. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
60. Shrestha, R. B., **M. N. Parajulee**, M. B. Adhikari, and R. E. Strauss. 2008. Comparative ontogenic morphometry: *Lygus hesperus* vs. *Lygus lineolaris*, pp. 1138-1129. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.
61. **Parajulee, M. N.**, A. K. Barman, A. Balachandran, C. Chen, R. B. Shrestha, and S. C. Carroll. 2008. Compensation of *Lygus*-induced fruit loss in drip irrigated cotton, pp. 1251-1256. Proceedings, Beltwide Cotton Conferences. National Cotton Council, Memphis, TN.

### **Experiment Station Research Reports**

1. Bordovsky, J. P., J. Mustian, and **M. N. Parajulee**. 2002. Cotton irrigation management with SDI. Helms Research Farm Annual Report, p. 7.
2. **Parajulee, M. N.**, A. M. Cranmer, J. F. Leser, P. L. Bommireddy, R. B. Shrestha, S. C. Carroll, and M. D. Arnold. 2002. Influence of cotton cultivar and planting date on arthropod populations. Helms Research Farm Annual Report, p. 10.
3. **Parajulee, M. N.**, R. B. Shrestha, S. C. Carroll, and J. P. Bordovsky. 2002. Influence of three irrigation methods (LEPA, Overhead Spray, and Drip) on seasonal activity of cotton arthropods. Helms Research Farm Annual Report, p. 11.

4. Porter, D. O., **M. N. Parajulee**, and T. A. Wheeler. 2002. Efficient irrigation management for cotton production in the Texas Southern High Plains. Western Peanut Growers Research Farm Annual Report.
5. **Parajulee, M. N.**, R. B. Shrestha, S. C. Carroll, M. D. Arnold, A. M. Cranmer, and P. L. Bommireddy. 2002. Cotton insect pests and natural enemies in conventional and conservation tillage systems at AG-CARES, Lamesa. Agricultural Complex for Advance Research and Extension Systems Annual Report, pp. 32-41.
6. Bordovsky, J. P., J. Mustian, and **M. N. Parajulee**. 2003. Cotton irrigation management with subsurface drip irrigation. Helms Research Farm Annual Report, p. 7.
7. **Parajulee, M. N.**, A. M. Cranmer, J. F. Leser, P. L. Bommireddy, R. B. Shrestha, S. C. Carroll, D. M. Nesmith, and J. P. Bordovsky. 2003. Influence of cotton cultivar and planting date on arthropod populations. Helms Research Farm Annual Report, p. 12.
8. **Parajulee, M. N.**, R. B. Shrestha, S. C. Carroll, D. M. Nesmith, and J. P. Bordovsky. 2003. Influence of soil nitrogen level on seasonal activity of cotton arthropods with drip irrigation systems. Helms Research Farm Annual Report, p. 23.
9. **Parajulee, M. N.**, P. L. Bommireddy, D. O. Porter, R. B. Shrestha, A. M. Cranmer, M. D. Arnold, and S. C. Carroll. 2003. Influence of irrigation regimes on insect populations in Texas High Plains cotton. Western Peanut Growers Research Farm Annual Report.
10. **Parajulee, M. N.**, P. L. Bommireddy, D. O. Porter, R. B. Shrestha, A. M. Cranmer, M. D. Arnold, and S. C. Carroll. 2003. Influence of irrigation regimes on insect populations in Texas High Plains cotton. Western Peanut Growers Research Farm Annual Report.
11. **Parajulee, M. N.**, R. B. Shrestha, S. C. Carroll, M. D. Arnold, A. M. Cranmer, and P. L. Bommireddy. 2003. Cotton insect pests and natural enemies in conventional and conservation tillage systems at AG-CARES, Lamesa. Agricultural Complex for Advance Research and Extension Systems Annual Report, pp. 42-45.
12. Bordovsky, J. P., C. Mull, and **M. N. Parajulee**. 2004. Cotton irrigation management with subsurface drip irrigation. Helms Research Farm Annual Report, p. 7.
13. **Parajulee, M. N.**, A. K. Barman, R. B. Shrestha, S. C. Carroll, D. M. Nesmith, and J. P. Bordovsky. 2004. Influence of cotton cultivar and planting date on *Lygus* populations. Helms Research Farm Annual Report, p. 13.
14. **Parajulee, M. N.**, J. F. Leser, R. B. Shrestha, A. K. Barman, and R. K. Boman. 2004. Evaluating the merits of sub-threshold effects of the Bollgard technology on the economics of bollworm management. Helms Research Farm Annual Report, p. 14.
15. **Parajulee, M. N.**, R. B. Shrestha, S. C. Carroll, D. M. Nesmith, and J. P. Bordovsky. 2004. Influence of soil nitrogen level on seasonal activity of cotton arthropods in drip irrigation system. Helms Research Farm Annual Report, p. 25.
16. **Parajulee, M. N.**, S. C. Carroll, D. M. Nesmith, and J. P. Bordovsky. 2005. Influence of soil nitrogen level on seasonal activity of cotton arthropods in drip irrigation system. Helms Research Farm Annual Report.
17. **Parajulee, M. N.**, S. C. Carroll, D. M. Nesmith, and J. P. Bordovsky. 2006. Influence of soil nitrogen level on seasonal activity of cotton arthropods in drip irrigation system. Helms Research Farm Annual Report.
18. **Parajulee, M.**, S. Carroll, A. Balachandran, and K. Bronson. 2007. Effect of cover crop on arthropod population dynamics in subsurface drip irrigated cotton at AGCARES, Lamesa, TX, 2007. AGCARES Research Farm Annual Report.

#### Technical Reports

1. **Parajulee, M. N.**, J. E. Slosser, P. M. Thaxton, and K. M. El-Zik. 1997. Quantifying levels of resistance to cotton insect pests in multi-adversity resistance (MAR) germplasms. Texas A&M Vernon Center Technical Report No. 97-01.
2. **Parajulee, M. N.**, J. E. Slosser, D. G. Bordovsky, T. A. Baughman, and E. P. Boring. 1999. Role of transgenic Bt cotton in a relay strip cropping system, pp. 8-14. In T. A. Baughman and M. N. Parajulee [eds.], Transgenic Bt cotton performance in the Texas Rolling Plains. Texas A&M Vernon Center Technical Report No. 99-06.

3. Slosser, J. E., D. G. Bordovsky, E. P. Boring, and **M. N. Parajulee**. 1999. Evaluation of Bollgard cotton performance in the Texas Rolling Plains, pp. 2-3. *In* T. A. Baughman and M. N. Parajulee [eds.], Transgenic Bt cotton performance in the Texas Rolling Plains. Texas A&M Vernon Center Technical Report No. 99-06.
4. **Parajulee, M. N.**, J. E. Slosser, R. Montandon, S. L. Dowhower, and W. E. Pinchak. 1999. Grasshoppers associated with mesquite and juniper habitats, pp. 43-45. *In* W. R. Teague [ed.], Rolling Plains Ranching Systems Report. Texas A&M Vernon Center Technical Report No. 99-10.
5. **Parajulee, M. N.** 2006. Ecologically intensive pest management in Texas High Plains cotton. Texas AgriLife Research and Extension Center Cotton Entomology Program Annual Report to Plains Cotton Growers, Inc.
6. **Parajulee, M. N.** 2007. Ecologically intensive pest management in Texas High Plains cotton. Texas AgriLife Research and Extension Center Cotton Entomology Program Annual Report to Plains Cotton Growers, Inc.

#### **Extension Publications**

1. Parajulee, M. N. 2003. Plant bug activity on roadside weed hosts. *In* FOCUS on Entomology for South Plains Agriculture, J. F. Leser (ed.), Vol. 42 No. 2, pp. 11.
2. Parajulee, M. N. 2003. Irrigation management and insect activity in cotton. *In* FOCUS on Entomology for South Plains Agriculture, J. F. Leser (ed.), Vol. 42 No. 4, pp. 7.
3. Parajulee, M. N. 2003. Lady beetles can eat a lot of cotton aphids in a short period of time. *In* FOCUS on Entomology for South Plains Agriculture, J. F. Leser (ed.), Vol. 42 No. 6, pp. 4.
4. Parajulee, M. N. 2003. Importance of beneficial arthropods in insect pest management in the High Plains. *In* FOCUS on Entomology for South Plains Agriculture, J. F. Leser (ed.), Vol. 42 No. 7, pp. 7.
5. Parajulee, M. N. 2003. Why are cotton aphids not distributed uniformly throughout the field? *In* FOCUS on Entomology for South Plains Agriculture, J. F. Leser (ed.), Vol. 42 No. 8, pp. 7.
6. Parajulee, M. N. 2003. Long-term trends in bollworm and tobacco budworm moth flight activity in the High Plains. *In* FOCUS on Entomology for South Plains Agriculture, J. F. Leser (ed.), Vol. 42 No. 13, pp. 7.
7. Parajulee, M. N. 2003-2006. *Lygus* population dynamics in non-cotton and cotton hosts. *In* FOCUS on Entomology for South Plains Agriculture, J. F. Leser (ed.), Vol. 42-44. Weekly publication of survey charts and summaries.

#### **Popular articles/interviews on Dr. Parajulee's work**

1. Greedy little pirate bug terrorizes grain robbers. Quarterly 12(3): 5. The University of Wisconsin, College of Agriculture and Life Sciences, Madison, WI, 1993.
2. A good pirate: The larger pirate bug could be a potent biocontrol in stored products. Agricultural Research 43(3): 19. USDA-ARS, Greenbelt, MD, 1995.
3. Bugs for hire: Siccing good insects on bad ones. Science News 147: 289-304, 1995.
4. Researchers investigate cotton irrigation strategies. Texas A&M University Research in Review AgNews, September 15, 2004.
5. Tiny fleahoppers can cause big problems: Early-season pressure from fleahoppers can take a bite out of final yields. Cotton Grower Magazine, p. 4-6, May 2005.
6. Research seeks answers to *Lygus* bug questions. Texas A&M University AgNews, August 5, 2005.
7. Research seeks answers to *Lygus* questions. Southwest Farm Press, August 12, 2005.
8. Inquiring minds want to know about cotton fleahoppers. Texas A&M University Research in Review/ AgNews, September 5, 2007.
9. Scouting is critical in insect management. Cotton Farming, June 2008.
10. Tiny insect causes big problems for cotton. Southwest farm Press 35 (19): 12-16, October 2008.

*Updated October 2008*