

Douglas Pfeiffer Publications

Research Publications

1. Papers in refereed journals

- Shrader, M. E. *, H.J. Burrack and D. G. Pfeiffer. *In press*. Effects of interspecific larval competition on developmental parameters in nutrient sources between *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae) and *Zaprionus indianus* Gupta. *J. Econ. Entomol.*
- Balayara, A. *, C. C. Brewster, L. J. Vaughan and D. G. Pfeiffer. *In press*. Pest management of an invasive mango-feeding fruit fly, *Bactrocera dorsalis* (Diptera: Tephritidae), in Senegal: Effect of foliar, fruit and soil treatment with organic insecticides on behavior and reproduction. *Plant Health Progress*
- Pfeiffer, D. G., M. E. Shrader*, J. C. E. Wahls*, B. N. Willbrand*, I. Sandum*, K. van der Linde, C. A. Laub, R. S. Mays, E. R. Day. 2019. African fig fly (Diptera: Drosophilidae): Biology, expansion of geographic range and its potential status as a soft fruit pest. *J. Integr. Pest Manag.* 10(1): 20 p. (<https://doi.org/10.1093/jipm/pmz018>)
- Willbrand, B. N. *, and D. G. Pfeiffer. 2019. Brown rice vinegar as an olfactory field attractant for *Drosophila suzukii* (Matsumura) and *Zaprionus indianus* Gupta (Diptera: Drosophilidae) in cherimoya in Maui, Hawaii, with implications for attractant specificity between species and estimation of relative abundance. *Insects* 10(3): 80 (18 p) (<https://www.mdpi.com/2075-4450/10/3/80/htm>)
- Shrader, M. E. *, H. J. Burrack and D. G. Pfeiffer. 2019. *Drosophila suzukii* (Diptera: Drosophilidae) oviposition and adult emergence in six wine grape varieties grown in Virginia. *J. Econ. Entomol.* 112: 139-148. doi.org/10.1093/jee/toy305
- Willbrand, B. *, D. G. Pfeiffer, L. Leblanc, A. Yassin. 2018. First report of African fig fly, *Zaprionus indianus* Gupta (Diptera: Drosophilidae), on the Island of Maui, Hawaii, USA in 2017 and potential impacts to the Hawaiian entomofauna. *Proc. Hawaiian Entomol. Soc.* 50: 55-65. (<https://scholarspace.manoa.hawaii.edu/handle/10125/59215>)
- Hussain, B., A. R. War and D. G. Pfeiffer. 2018. Mapping foliage damage index and monitoring of *Pieris brassicae* by using GIS-GPS technology in cole crops. *J. Entomol. Zool. Studies* n6: 933-938.
- Mathews, C. R., B. Blaauw, G. Dively, J. Kotcon, J. Moore, E. Ogburn, D. G. Pfeiffer, T. Trope*, J. F. Walgenbach, C. Welty, G. Zinati and A. L. Nielsen. 2017. Evaluating a poly culture trap crop for organic management of *Halyomorpha halys* and native stink bugs in peppers. *J. Pest Sci.* 90: 1245-1255. doi: 10.1007/s10340-017-0838-z.
- Dellinger, T. A., E. R. Day and D. G. Pfeiffer. 2016. Brown marmorated stink bug in the Mid-Atlantic states: Assessing grower perceptions, economic impact, and extension progress. *J. Extension* 54(4): 4RIB4 (9 pp). http://www.joe.org/joe/2016august/pdf/JOE_v54_4rb4.pdf
- Basnet, S. *, T. P. Kuhar, C. A. Laub and D. G. Pfeiffer. 2015. Seasonality and distribution pattern of brown marmorated stink bug (Hemiptera: Pentatomidae) in Virginia vineyards. *J. Econ. Entomol.* 108: 1902-1909. (doi: <http://dx.doi.org/10.1093/jee/tov124>)
- Rice, K. B., C. J. Bergh, E. J. Bergmann, D. J. Biddinger, C. Dieckhoff, G. Dively, H. Fraser, T. Garipey, G. Hamilton, T. Haye, A. Herbert, K. Hoelmer, C. R. Hooks, A. Jones, G. Krawczyk, T. Kuhar, H. Martinson, W. Mitchell, A. L. Nielsen, D. G. Pfeiffer, M. J. Raupp, C. Rodriguez-

- Saona, P. Shearer, P. Shrewsbury, P. D. Venugopal, J. Whalen, N. G. Wiman, T. C. Leskey, and J. F. Tooker. 2014. Biology, ecology, and management of brown marmorated stink bug (Hemiptera: Pentatomidae). *J. Integr. Pest Manag.* 5(3): A1-A13.
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- Basnet, S.* , L. M. Maxey, C. Laub, T. P. Kuhar and D. G. Pfeiffer. 2014. The stink bug (Hemiptera: Pentatomidae) community in primocane-bearing raspberries in southwestern Virginia. *J. Entomol. Sci.* 49: 304-312.
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- Shrader, M.* , T. P. Kuhar, P. Schultz, D. Pfeiffer and K. Kamminga. 2014. Bean leaf beetle (Coleoptera: Chrysomelidae) preference for two *Phaseolus* beans over soybean. *J. Entomol. Sci.* 49: 87-90.
- Mochiah, M. B., M. K. Osei, K. Osei, D. Pfeiffer and R. Muniappan. 2014. Impact of farmer field schools on cabbage production in two districts of Ashanti and Brong Ahafo regions of Ghana. *Internat. J. Agric. Innovat. Res.* 2 (4): 525-529. ISSN (Online) 2319-1473 (http://www.ijair.org/administrator/components/com_jresearch/files/publications/IJAIR_430_Final.pdf)
- Leskey, T. C., G. C. Hamilton, D. J. Biddinger, M. L. Buffington, C. Dieckhoff, G. P. Dively, H. Fraser, T. Gariepy, C. Hedstrom, D. A. Herbert, K. A. Hoelmer, C. R. R. Hooks, D. Inkley, G. Krawczyk, T. P. Kuhar, D.-H. Lee, A. L. Nielsen, D. G. Pfeiffer, C. Rodriguez-Saona, P. W. Shearer, E. Talamas, E. Tomasino, J. Tooker, P. D. Venugopal, J. Whalen, V. Walton, K. M. Makkouk and N. Wiman. 2014. *Halyomorpha halys* (brown marmorated stink bug). CABI Invasive Species Compendium. On-line
(<http://www.cabi.org/isc/?compid=5&dsid=27377&loadmodule=datasheet&page=481&site=144>)
- Dinakaran, D., G. Gajendran, S. Mohankumar, G. Karthikeyan, S. Thiruvudainambi, E. I. Jonathan, R. Samiyappan, D. G. Pfeiffer, E. G. Rajotte, G. W. Norton, S. Miller and R. Muniappan. 2013. Evaluation of integrated pest and disease management module for shallots in Tamil Nadu, India - A farmer's participatory approach. *J. Integr. Pest Manag.* 4(2): B1-B9 (<http://dx.doi.org/10.1603/IPM12019>)
(<http://esa.publisher.ingentaconnect.com/content/esa/jipm/2013/00000004/00000002/art00004>)
- Pfeiffer, D. G., R. Muniappan, D. Sall, P. Diatta, A. Diongue and E. O. Dieng. 2013. First record of *Tuta absoluta* (Lepidoptera: Gelechiidae) in Senegal. *Fla. Entomol.* 96: 661-662.
(<http://www.bioone.org/doi/pdf/10.1653/024.096.0241>) doi:
<http://dx.doi.org/10.1653/024.096.0241>
- Jordan, T. J.* , A. Zhang and D. G. Pfeiffer. 2013. Blend chemistry and field attraction of commercial sex pheromone lures to grape berry moth, *Paralobesia viteana* (Clemens) (Lepidoptera: Tortricidae), and a non-target tortricid in vineyards. *Environ. Entomol.* 42: 558-563. Doi: <http://dx.doi.org/10.1603/EN13033>
- Wallingford, A. K.* , T. P. Kuhar, D. G. Pfeiffer, D. B. Tholl, J. H. Freeman, H. B. Doughty and P. B. Schultz. 2013. Host plant preference of harlequin bug (Hemiptera: Pentatomidae), and evaluation of a trap cropping strategy for its control in collard. *J. Econ. Entomol.* 106: 283-288.

- Leskey, T. C., G. C. Hamilton, A. L. Nielsen, D. F. Polk, C. Rodriguez-Saona, J. C. Bergh, D. A. Herbert, T. P. Kuhar, D. Pfeiffer, G. P. Dively, C. R. R. Hooks, M. J. Raupp, P. M. Shrewsbury, G. Krawczyk, P. W. Shearer, J. Whalen, C. Koplinka-Loehr, E. Myers, D. Inkley, K. A. Hoelmer, D.-H. Lee, and S. E. Wright. 2012. Pest status of the brown marmorated stink bug, *Halyomorpha halys* in the USA. *Outlooks on Pest Manag.* 23(5): 218-226. Doi: 10.1564/23oct07.
- Wallingford, A. K.* and D. G. Pfeiffer. 2012. A survey of sharpshooters (Hemiptera: Cicadellidae) in Virginia vineyards, a region of expanding concern for Pierce's disease. *J. Entomol. Sci.* 47: 360-365.
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- Zhang, X.*, S. Luckhart, Z. Tu and D. G. Pfeiffer. 2010. Analysis of *Wolbachia* strains associated with *Conotrachelus nenuphar* (Coleoptera: Curculionidae) in the eastern United States. *Environ. Entomol.* 39: 396-405.
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- Lim, G. T.*, L. G. Kirton, S. M. Salom, L. T. Kok, R. D. Fell and D. G. Pfeiffer. 2008. Mahogany shoot borer control in Malaysia and prospects for biocontrol using weaver ants. *J. Trop. For. Sci.* 20: 147-155
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(<http://www.cababstractsplus.org/cabreviews/Reviews.asp?action=display&openMenu=relatedItems&ReviewID=82825&Year=2008>)
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2. Books and monographs

- Demchak, K. (coord.), (PSU) T. E. Elkner, C. J. Esslinger, M. Frazier, S. D. Guiser, J. M. Halbrendt, J. K. Harper, G. Krawczyk, K. M. Richards, (Rutgers) J. R. Heckman, B. W. Majek, P. Nitzsche, P. Oudemans, G. Pavlis, D. Polk, C. Rodriguez-Saona, W. J. Sciarappa, D. L. Ward, (UDel) G. C. Johnson, (UMd) B. R. Butler, J. A. Fiola, W. Lantz, (USDA-Beltsville) M. Ehlenfeldt, (Va Tech) J. F. Derr, C. Johnson, D. G. Pfeiffer, R. A. Straw, K. S. Yoder, (WVA) A. R. Biggs, J. W. Jett, L. W. Jett (Additional Contributor) E. Mashburn, H. Swarz. 2013. *The Mid-Atlantic Berry Guide for Commercial Growers, 2013-2014*. Pa. State Univ., Agric. Res. Coop. Ext. 271 p. (Authors listed alphabetically within participating states).
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- Demchak, K. (coord.), (PSU) Brittingham-Brant, M., M. Frazier, S. D. Guiser, J. M. Halbrendt, J. K. Harper, G. Krawczyk, K. M. Richards, E. S. Sánchez, J. W. Travis, (Rutgers) B. W. Majek, P. Nitzsche, P. Oudemans, G. Pavlis, S. Polavarapu, D. Polk, P. R. Probasco, C. Rodriguez-Saona, W. J. Sciarappa, P. W. Shearer, M. Stanghellini, (UDel) D. M. Caron, W. E. Kee, G. C. Johnson, (UMd) B. R. Butler, J. A. Fiola, H. J. Swartz, (Va Tech) A. D. Bratsch, J. F. Derr, J. A. Pattison, D. G. Pfeiffer, K. S. Yoder, (WVA) J. Baniecki, A. Biggs, H. W. Hogmire, R. Zimmerman. 2006. *The Mid-Atlantic Berry Guide for Commercial Growers*. Pa. State Univ., Agric. Res. Coop. Ext. 205 p. (Authors listed alphabetically within participating states) (VCE Pub. No. 423-020).
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3. Book chapters

Pfeiffer, D. G. 2012. Japanese beetle and other Coleoptera feeding on grapevines in eastern North America. p. 403-439. *In*: N. J. Bostanian, C. Vincent and R. Isaacs (eds.), *Arthropod Management in Vineyards: Pests, Approaches, and Future Directions*. Springer, Dordrecht, The Netherlands. (<http://www.springerlink.com/content/j80r8184452875t1/>)

Pfeiffer, D. G., T. C. Leskey and H. J. Burrack. 2012. Threatening the harvest: The threat from three invasive insects in late season vineyards. p. 449-474. *In*: N. J. Bostanian, C. Vincent and R. Isaacs (eds.), *Arthropod Management in Vineyards: Pests, Approaches, and Future Directions*. Springer, Dordrecht, The Netherlands. (This book was in the top 50% of downloads from Springer for 2012. This chapter was among the top three downloaded chapters) (<http://www.springerlink.com/content/h685916145511tj/>)

Pfeiffer, D. G. 2008. Major insect and mite pests of grapes. p. 241-261, 307-311. *In*: T. K. Wolf (ed.) *Wine Grape Production Guide for Eastern North America*. Natural Resource, Agriculture, and Engineering Service Pub.; 145, Cornell. (http://palspublishing.cals.cornell.edu/nra_order.taf?_function=detail&pr_id=178&_UserReference=0E03A)

Pfeiffer, D. G., J. Tedeschini, L. Daku, M. Hasani, R. Uka, B. Stamo and B. Ferraj. 2005. Developing IPM packages in Eastern Europe: Participatory IPM research in Albanian olives. p. 121-139. *In* G. W. Norton, E.A. Heinrichs, G. C. Luther, M. E. Irwin. (eds.) *Globalizing Integrated Pest Management: A Participatory Research Process*. Blackwell, Oxford UK. 338 p.

Pfeiffer, D. G. 2000. Selective insecticides. p. 131-144. *In* J. E. Rechcigl and N. A. Rechcigl (eds). *Integrated Pest Management: Techniques for Environmental Protection*. Lewis, New York. 392 p.

Pfeiffer, D. G. 1997. Deciduous fruit trees. p. 293-322. *In* Y. Ben-Dov and C. J. Hodgson (eds.) *Soft Scale Insects: Their Biology, Natural Enemies and Control*. World Crop Pests, vol 7B. Elsevier, Amsterdam. 442 p.

Pfeiffer, D. G. 1996. Applications of pheromone technology to pests in small fruit in the Northeast. p. 11-17. *In* C. Hollingsworth (ed). *Implementing Pheromone Technology in the Northeast*. Northeast Regional Agric. Engineer. Serv. Publ. 83, Ithaca. 65 p.

Hogmire, H. W. (ed.). 1995. *Mid-Atlantic Orchard Monitoring Guide*. Northeast Regional Agric. Engineer. Serv. Publ. 75, Ithaca. 361 p. (Listed by Virginia Tech as Extension Publication 490-403) (I served as the Entomology Discipline Chair, coordinating 11 authors in 5 states, resulting in 16 chapters.) I served as author for the following chapters:

Hull, L. A., D. G. Pfeiffer and D. J. Biddinger. 1995. Apple - Direct pests. p. 5-17.

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