

Phillip E. Kaufman

Associate Professor of Veterinary Entomology



Contact

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Education

- PhD., University of Wyoming (Entomology), 1997
- M.S., University of Wisconsin (Entomology), 1994
- B.S., University of Illinois (Animal Science), 1991

Relevant Employment History

- 2011-present, Associate Professor, University of Florida, Gainesville
- 2005-2011, Assistant Professor, University of Florida, Gainesville
- 1997-2005, Research Associate, Cornell University, Ithaca, NY

Research Responsibilities

My research program focuses on the development of new pest management tools for Florida's livestock operators. Beef cattle, dairy cattle and horses are the predominant livestock in Florida and are the focus of this program. Insecticide resistance and control failures are commonplace for many of the fly pests; therefore, innovative systems are needed to assist in their management. However, to successfully manage these pests, studies investigating their biology and ecology are needed.

The role that biological control can play in assisting with pest control is another research avenue. Producer pesticide selection and the resultant impacts on non-target, beneficial arthropods in grazing systems are of particular interest.

Extension Responsibilities

- Deliver cost effective pest management systems for Florida livestock producers.
- Provide outreach support for county-based faculty.
- Revise and write electronic (EDIS) and hardcopy publications for homeowner and livestock producer use.

Teaching Responsibilities

- Medical and Veterinary Entomology (ENY 4660/6665)
- Forensic Entomology (Spring 2007)
- ENY 6934: Teach alternating seminars in Veterinary, Medical, and Public Health Entomology
- Mentoring graduate students in my program, serving on other graduate student committees, and guest lecturing.

Visit the Kaufman Laboratory Website

Selected Publications: (Complete publications and PDFs listed here)

- Pitzer, J.B., P.E. Kaufman, J.A. Hogsette, C.J. Geden, and S.H. TenBroeck. 2011. Seasonal abundance of stable flies and filth fly pupal parasitoids (Hymenoptera: Pteromalidae) at Florida equine facilities. *Journal of Economic Entomology* (in press).
- Pitzer, J.B., P.E. Kaufman, C.J. Geden, and J.A. Hogsette. 2011. The ability of selected pupal parasitoids (Hymenoptera: Pteromalidae) to locate stable fly hosts in a soiled equine bedding substrate. *Environmental Entomology* 40: 88-93.
- Olafson, P.U., J.B. Pitzer, and P.E. Kaufman. 2011. Identification of a mutation associated with permethrin resistance in the para-type sodium channel of the stable fly (Diptera: Muscidae). *Journal of Economic Entomology* 104: 250-257.
- Pitzer, J.B., P.E. Kaufman, S.H. TenBroeck, and J.E. Maruniak. 2011. Host blood meal identification by multiplex polymerase chain reaction for dispersal evidence of stable flies (Diptera: Muscidae) between livestock facilities. *Journal of Medical Entomology* 48: 53-60.
- Kaufman, P.E., R.S. Mann, and J.F. Butler. 2011. Insecticidal potency of novel compounds on multiple insect species of medical and veterinary importance. *Pest Management Science* 67: 26-35.
- Pitzer, J.B., P.E. Kaufman, and S.H. TenBroeck. 2010. Assessing permethrin resistance in the stable fly (Diptera: Muscidae) in Florida using laboratory selections and field evaluations. *Journal of Economic Entomology* 103: 2258-2263.
- Mann, R.S., and P.E. Kaufman. 2010. Colonization of *Lutzomyia shannoni* (Diptera: Psychodidae) utilizing an artificial blood feeding technique. *Journal of Vector Ecology* 35: 286-294. (NOTE: Download free at <http://www.sove.org>)
- Obenauer, P.J., S.A. Allan, and P.E. Kaufman. 2010. *Aedes albopictus* (Diptera: Culicidae) oviposition response to organic infusions from common flora of suburban Florida. *Journal of Vector Ecology* 35: 301-306. (NOTE: Download free at <http://www.sove.org>)
- Obenauer, P.J., P.E. Kaufman, D.L. Kline, and S.A. Allan. 2010. Detection of and monitoring for *Aedes albopictus* (Diptera: Culicidae) in suburban and sylvatic habitats in north central Florida using four sampling techniques. *Environmental Entomology* 39: 1608-1616.
- Kaufman, P.E., S.C. Nunez, C.J. Geden, and M.E. Scharf. 2010. Selection for resistance to imidacloprid in the house fly (Diptera: Muscidae). *Journal of Economic Entomology* 103: 1937-1942.
- Mann, R.S., P.E. Kaufman, and J.F. Butler. 2010. Evaluation of semiochemical toxicity to house flies and stable flies (Diptera: Muscidae). *Pest Management Science* 66: 816-824.

- Kaufman, P.E., R.S. Mann, and J.F. Butler. 2010. Evaluation of semiochemical toxicity to *Aedes aegypti*, *Ae. albopictus* and *Anopheles quadrimaculatus* (Diptera: Culicidae). *Pest Management Science* 66: 497-504.
- Mann, R.S., and P.E. Kaufman. 2010. The seasonal abundance of Phlebotomine sand flies, *Lutzomyia* spp. in Florida. *Journal of the American Mosquito Control Association* 26: 10-17.
- Obenauer, P.J., P.E. Kaufman, S.A. Allan, and D.L. Kline. 2009. Infusion-baited ovitraps to survey ovipositional height preferences of container-breeding mosquitoes in two Florida habitats. *Journal of Medical Entomology* 46: 1507-1513.
- Mann, R.S., and P.E. Kaufman. 2010. Colonization of *Lutzomyia shannoni* (Diptera: Psychodidae) utilizing an artificial blood feeding technique. *Journal of Vector Ecology* 35: 286-294. (NOTE: Download free at <http://www.sove.org>)
- Kaufman, P.E., S. Nunez, R.S. Mann, C.J. Geden, and M.E. Scharf. 2010. Nicotinoid and pyrethroid insecticide resistance in house flies (Diptera: Muscidae) collected from Florida dairies. *Pest Management Science* 66: 290-294.
- Bentley, M.T., P.E. Kaufman, D.L. Kline, and J.A. Hogsette. 2009. Response of adult mosquitoes to light emitting diodes placed in resting boxes and in the field. *Journal of the American Mosquito Control Association* 25: 285-291.
- Mann, R.S., P.E. Kaufman, and J.F. Butler. 2009. *Lutzomyia* spp. (Diptera: Psychodidae) response to olfactory attractant- and light-emitting diode-modified Mosquito Magnet X (MM-X) traps. *Journal of Medical Entomology* 46: 1052-1061.
- Kaufman, P.E., and C.J. Geden. 2009. Development of *Spalangia cameroni* and *Muscidifurax raptor* (Hymenoptera: Pteromalidae) on live and freeze-killed house fly (Diptera: Muscidae) pupae. *Florida Entomologist* 92: 492-496.
- Obenauer, P.J., P.E. Kaufman, S.A. Allan, and D.L. Kline. 2009. Host-seeking height preferences of *Aedes albopictus* (Diptera: Culicidae) in North-Central Florida suburban and sylvatic locales. *Journal of Medical Entomology* 46: 900-908.
- Kaufman, P.E., J.F. Butler, and C. Nelson. 2008. Evaluation of the Mosquito Sentinel 360 trap in Florida residential environments. *Journal of the American Mosquito Control Association* 24: 528-533.
- Kaufman, P.E., L.A. Wood, J.I. Goldberg, S.J. Long, and D.A. Rutz. 2008. Host age and pathogen exposure level as factors in the susceptibility of the house fly, *Musca domestica* (Diptera: Muscidae) to *Beauveria bassiana*. *Biocontrol Science and Technology* 18: 841-847.
- Kaufman, P.E., A.C. Gerry, D.A. Rutz, and J.G. Scott. 2006. Monitoring susceptibility of house flies (*Musca domestica* L.) in the United States to imidacloprid. *Journal of Agricultural and Urban Entomology* 23: 195-200.
- Wood, L.A., and P.E. Kaufman. 2008. *Euoniticellus intermedius* (Coleoptera: Scarabaeidae: Scarabaeinae: Tribe Coprini): Its presence and relative abundance in cattle pastures in Northcentral Florida. *Florida Entomologist* 91: 128-130.
- Kaufman, P.E., C. Strong, and D.A. Rutz. 2008. Susceptibility of lesser mealworm (Coleoptera: Tenebrionidae) adults and larvae exposed to two commercial insecticides on unpainted plywood panels. *Pest Management Science* 64: 108-111.
- Geden, C.J., and P.E. Kaufman. 2007. Development of *Spalangia cameroni* and *Muscidifurax raptor* (Hymenoptera: Pteromalidae) on live house fly (Diptera: Muscidae) pupae and pupae killed by heat shock, irradiation and cold. *Environmental Entomology* 36: 34-39.
- Hamm, R.L., P.E. Kaufman, C. Reasor, J.G. Scott, and D.A. Rutz. 2006. Resistance to cyfluthrin and tetrachlorvinphos in the lesser mealworm, *Alphitobius diaperinus*, collected from the eastern United States. *Pest Management Science* 62: 673-677.

- Kaufman, P.E., C. Reasor, J.K. Waldron, and D.A. Rutz. 2005. Suppression of the lesser mealworm (Coleoptera: Tenebrionidae) using soil incorporation of poultry manure. *Journal of Economic Entomology* 98: 1739-1743.
- Kaufman, P.E., C. Reasor, J.K. Waldron, and D.A. Rutz. 2005. Evaluation of a barrier to inhibit lesser mealworm (Coleoptera: Tenebrionidae) and dermestidae movement up support posts in high-rise, caged-layer poultry facilities. *Journal of Economic Entomology* 98: 1744-1749.
- Kaufman, P.E., L.C. Harrington, J.K. Waldron, and D.A. Rutz. 2005. The importance of agricultural tire habitats for mosquitoes of public health importance in New York state. *Journal of the American Mosquito Control Association* 21: 171-176.
- Kaufman, P.E., C. Reasor, D.A. Rutz, J.K. Ketzis, and J.J. Arends. 2005. Evaluation of *Beauveria bassiana* applications against adult house flies, *Musca domestica*, in commercial caged-layer poultry facilities in New York State. *Biological Control* 33: 360-367.
- Kaufman, P.E., M. Burgess, D.A. Rutz, and C.S. Glenister. 2002. Population dynamics of manure inhabiting arthropods under an IPM program in New York poultry facilities - 3 case studies. *Journal of Applied Poultry Research* 10: 90-103.
- Kaufman, P.E., D.A. Rutz, and J.K. Waldron. 2002. Seasonal variations in *Carcinops pumilio* dispersal and potential for suppression of dispersal behavior. *Journal of Medical Entomology* 39: 106-111.
- Kaufman, P.E., S.J. Long, and D.A. Rutz. 2001. Impact of exposure length and pupal source on *Muscidifurax raptorellus* and *Nasonia vitripennis* (Hymenoptera: Pteromalidae) parasitism in a New York poultry facility. *Journal of Economic Entomology* 94: 998-1003.
- Kaufman, P.E., J.G. Scott, and D.A. Rutz. 2001. Monitoring insecticide resistance in house flies from New York dairies. *Pest Management Science* 57: 514-521.
- Kaufman, P.E., S.J. Long, D.A. Rutz, and C.S. Glenister. 2001. Larval production from field- collected *Carcinops pumilio* (Coleoptera: Histeridae) following three starvation periods. *Journal of Medical Entomology* 38: 278-281.
- Watson, D.W., P.E. Kaufman, D.A. Rutz, and C.S. Glenister. 2001. Impact of the darkling beetle, *Alphitobius diaperinus* Panzer on the establishment of the predaceous beetle, *Carcinops pumilio* Erichson for *Musca domestica* control in caged-layer poultry houses. *Biological Control* 20: 8-15.
- Scott, J.G., T.G. Alefantis, P.E. Kaufman, and D.A. Rutz. 2000. Insecticide resistance in house flies from caged-layer poultry facilities. *Pest Management Science* 56: 1-7.
- Kaufman, P.E., J.E. Lloyd, R. Kumar, J.B. Campbell, and D.J. Boxler. 1999. The differences between horn fly densities on cattle pastured in Wyoming and Nebraska as possibly influenced by elevation. *Southwest Entomology* 24: 115-121