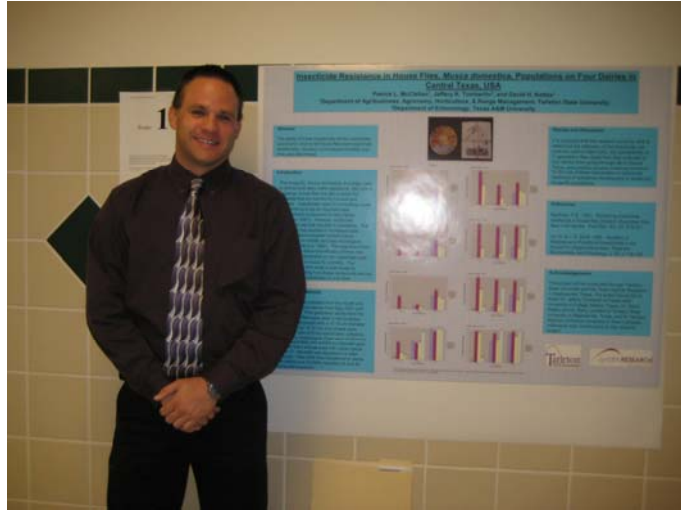


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**INSECTICIDE RESISTANCE IN HOUSE FLY, *MUSCA DOMESTICA*, POPULATIONS IN FOUR DAIRIES IN CENTRAL TEXAS, USA**



The house fly, *Musca domestica*, is a major pest in and around dairy cattle operations. Not only a nuisance, house flies may also serve as vectors of pathogens that are harmful to humans and animals. House flies will be collected from four Erath and Comanche County dairies from May 2007 until October 2007 and tested for insecticide resistance. A topical bioassay method will be used to replicate insecticide exposure. Tests will be conducted to determine resistance to three select insecticides, which include cyfluthrin, spinosad, and imidacloprid. In addition to laboratory testing, dairies will be instructed to keep records of insecticide usages and quantities and record any visual effects noticed during the testing time frame. The results will be reported in the following article. Patterns of resistance development to the four insecticides and the proposal of future resistance management programs on these four dairies are discussed.

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