

**Dr. Leon G. Higley**  
University of Nebraska-Lincoln  
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## Professional Memberships

American Academy of Forensic Science. (January 1, 2012 - Present).

none, American Society of Agronomy. (January 1, 2012 - Present).

Crop Science Society of America. (January 1, 2012 - Present).

various, none in 2012, Entomological Society of America. (January 1, 2012 - Present).

International Association of Identification. (January 1, 2012 - Present).

## TEACHING

### Teaching Experience

#### University of Nebraska-Lincoln

NRES/BIOS 220, Principles of Ecology

ENTO/FORS 414/814, FORENSIC ENTOMOLOGY

NRES 222, Ecology Laboratory

NRES 498/898, Special Topics in Natural Resources; Wildlife Forensic

NRES 862, Conservation Biology

### Directed Student Learning

#### Doctorate (committee chair/supervisor)

Doctorate (committee chair/supervisor), "Thermal Biology of Tiger Beetles in Yellowstone National Park," School of Natural Resources.

Advised: Kelly Willemssens

#### Masters (committee chair/supervisor)

Masters (committee chair/supervisor), School of Natural Resources.

Advised: Braymond Adams

## RESEARCH

### Published Intellectual Contributions

#### Books

Lamp, W., Berberet, R., Higley, L., Baird, C. (2007). In Lamp, W., R. Berberet, L. Higley, and C. Baird (Ed.), *Handbook of forage and rangeland insects*. Hyattsville, MD: Entomological Society of America.

Higley, L., Peterson li, R. (2001). In Peterson, R. K. D., and L. G. Higley (Ed.), *Biotic Stress and Yield Loss*. Boca Raton, FL: CRC Press.

Higley, L., Pedigo, L. P. (1997). In Higley, L. G., and L. P. Pedigo (Ed.), *Economic thresholds for integrated pest management*. Lincoln, NE: Univ. of Nebraska Press.

### Book Chapters

Haskell, N. H., Hall, R. D., Higley, L. Chapter 25C Forensic (Medicocriminal) Entomology—Applications in Medicolegal Investigations. In C. Wecht (Ed.), *Forensic Sciences*. Albany, New York: Mathew Bender.

Louda, S. M., Higley, L. (2010). Interplay of observation and experiment in “contingent science”. In I. Billick and M. Price (Ed.), *Ecology of Place*. Chicago: University of Chicago Press.

Higley, L., Haskell, N. H. (2009). Insect development and forensic entomology. In J. H. Byrd and J. L. Castner (Ed.), *Forensic Entomology: The Utility of Arthropods in Legal Investigations, second edition*. Boca Raton, FL: CRC Press.

Brosius, T., Higley, L., Spomer, S., Allgeier, W., Svehla, S. (2009). Salt Creek tiger beetle conservation and art; About the Salt Creek tiger beetle. In T. Brosius and K. I. Helms (Ed.), *Salt Creek Environment: Local and Endangered* (pp. 4-6). Lincoln, NE: Great Plains Chapter Guild of the Scientific Illustrators Inc..

Higley, L., Huntington, T. (2008). Collection and analysis of climatological data. In N. A. Haskell and R. E. Williams (Ed.), *Entomology and Death: A Procedural Guide. 2nd edition*. Clemson, SC: East Park Printing.

Higley, L., Peterson li, R. (2008). Economic decision levels for pest management. In T. Radcliffe, W. Hutchison, and R. Cancelado (Ed.), *Integrated Pest Management* (pp. 25-32). Cambridge: Cambridge University Press.

Higley, L. (2007). Identification of arthropods and diagnosis of injury. In W. Lamp, R. Berberet, L. Higley, and C. Baird (Ed.), *Handbook of forage and rangeland insects* (pp. 33-40). Hyattsville, MD: Entomological Society of America.

Lamp, W., Higley, L. (2007). Integrated pest management. In W. Lamp, R. Berberet, L. Higley, and C. Baird (Ed.), *Handbook of forage and rangeland insects* (pp. 28-33). Hyattsville, MD: Entomological Society of America.

Higley, L. (2007). Seedcorn maggot. In G. D. Bunin (Ed.), *Handbook of Small Grain Insects*. Lanham, MD: Entomol. Soc. Amer..

Buntin, G. D., Higley, L. (2006). Arthropod sampling and decision making. In J. N. All and M. F. Treacy (Ed.), *Utilization and Management of Insecticides, Acaricides, and Transgenic Crops* (pp. 25-26). Lanham, MD: Entomol. Soc. Amer..

Higley, L. (2004). Insects. In D. Wishart (Ed.), *Encyclopedia of the Great Plains*. Lincoln, NE: Univ. of Nebraska Press.

Higley, L. (2003). Changing perspectives on insects in the 19th and 20th centuries as illustrated through advertising trade cards. In Élisabeth Motte-Florac & Jacqueline M. C. Thomas (Ed.), *Les Insectes dans la Tradition Orale – Insects in Oral Literature And Traditions*. Leuven/Louvain: Peeters Publishers.

Higley, L., Peterson li, R. (2002). Decision making. In D. Pimentel (Ed.), *Encyclopedia of Pest Management* (pp. 184-186). NY: Marcel Decker.

- Peterson li, R., Higley, L. (2002). Thresholds for pest management. In D. Pimentel (Ed.), *Encyclopedia of Pest Management* (pp. 228-230). NY: Marcel Decker.
- Higley, L., Peterson li, R. (2001). Illuminating the black box: The relationship between injury and yield. In R. K. D. Peterson and L. G. Higley (Ed.), *Biotic Stress and Yield Loss*. Boca Raton, FL: CRC Press.
- Higley, L., Haskell, N. H. (2001). Insect development and forensic entomology. In J. H. Byrd and J. L. Castner (Ed.), *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. Boca Raton, FL: CRC Press.
- Peterson li, R., Higley, L. (2001). Preface. In R. K. D. Peterson and L. G. Higley (Ed.), *Biotic Stress and Yield Loss*. Boca Raton, FL: CRC Press.
- Peterson li, R., Higley, L. (2001). Yield loss and pest management. In R. K. D. Peterson and L. G. Higley (Ed.), *Biotic Stress and Yield Loss*. Boca Raton, FL: CRC Press.
- Higley, L., Pedigo, L. P. (1999). Decision thresholds in pest management. In J. R. Ruberson (Ed.), *Handbook of Pest Management*. New York: Marcel Dekker, Inc..
- Pedigo, L. P., Higley, L. (1997). Future outlook for decision making in pest management. In L. G. Higley and L. P. Pedigo (Ed.), *Economic Thresholds for Integrated Pest Management*. Lincoln, NE: Univ. of Nebraska Press.
- Pedigo, L. P., Higley, L. (1997). Introduction. In L. G. Higley and L. P. Pedigo (Ed.), *Economic Thresholds for Integrated Pest Management*. Lincoln, NE: Univ. of Nebraska Press.
- Higley, L., Peterson li, R. (1997). The biological basis of the economic injury level. In L. G. Higley and L. P. Pedigo (Ed.), *Economic Thresholds for Integrated Pest Management*. Lincoln, NE: Univ. of Nebraska Press.
- Higley, L., Pedigo, L. P. (1997). The economic injury level concept. In L. G. Higley and L. P. Pedigo (Ed.), *Economic Thresholds for Integrated Pest Management*. Lincoln, NE: Univ. of Nebraska Press.
- Higley, L., Wintersteen, W. K. (1997). Thresholds and environmental quality. In L. G. Higley and L. P. Pedigo (Ed.), *Economic Thresholds for Integrated Pest Management*. Lincoln, NE: Univ. of Nebraska Press.

### Refereed Journal Articles

- Pursley, A., Higley, L., Hoback, W. W. (in press). Gravitational force tolerance: A laboratory exercise. *Gravitational force tolerance: A laboratory exercise*.
- Brosius, T. R., Higley, L. (2014). Using the visual arts to promote the conservation of the Salt Creek tiger beetle. *Using the visual arts to promote the conservation of the Salt Creek tiger beetle*, 60.
- Golick, D., Heng-Moss, T., Steckelberg, A., Brooks, D., Higley, L., Fowler, D. (2013). Using web-based key character and classification instruction for teaching undergraduate students insect identification. *Journal of Science Education and Technology*.  
[www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s10956-012-9410-z](http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s10956-012-9410-z)

- Rossato, J., Costa, G., Madaleno, L. L., Mutton, M. J. R., Higley, L., Fernandes, O. A. Characterization and impact of the sugarcane borer on the raw material and sugar quality. *Characterization and impact of the sugarcane borer on the raw material and sugar quality.*, 105, 643-648.
- Brosius, T. R., Higley, L., Hunt, T. (2010). Biotic and abiotic influences on within-plant distribution of soybean aphid (Hemiptera: Aphididae: Aphis glycines). *J. Kansas Entomol. Soc.*, 83, 273-282.
- Franzen-Castle, L., Gutsche, A., Heng-Moss, T., Higley, L., Macedo, T. (2008). Physiological responses of wheat and barley to Russian wheat aphid, *Diuraphis noxia* (Mordvilko) and bird cherry-oat aphid, *Rhopalosiphum padi* (L.) (Hemiptera: Aphididae). *Arthropod-Plant Interactions*, 2, 227-235.
- Franzen-Castle, L., Gutsche, A., Heng-Moss, T., Higley, L., Sarath, G., Burd, J. (2007). Physiological and biochemical responses of resistant and susceptible wheat to injury by Russian wheat aphid. *Journal of Economic Entomology*, 100, 1692-1703.
- Heng-Moss, T., Macedo, T., Franzen-Castle, L., Baxendale, F., Higley, L., Sarath, G. (2006). Physiological responses of resistant and susceptible buffalograsses to *Blissus Occiduus* (Hemiptera: Blissidae) feeding. *Journal of Economic Entomology*, 99, 222-228.
- Haile, F. J., Higley, L., Specht, J. (1998). Soybean cultivars and insect defoliation: Yield loss and economic injury levels. *Agron. J.*, 90, 344-352.
- Haile, F. J., Higley, L., Specht, J., Spomer, S. M. (1998). The role of leaf morphology in soybean tolerance to defoliation. *Agron. J.*, 90, 353-362.

### Conference Proceedings

- Higley, L. (2008). *How to lose money despite high crop prices or misuses, misapplications, and mistakes with insect thresholds* (pp. 67-69).
- Higley, L. (2007). *Can insects be bioterrorism agents?* (vol. 2, pp. 422-423).
- Higley, P. M., Higley, L. (2007). *Limitations to the use of plant pathogens as agents of bioterrorism* (vol. 2, pp. 424-425).
- Hunt, T., Jarvi, K., Brosius, T., Higley, L. (2007). *Soybean Insect Update* (pp. 61-64). University of Nebraska Extension, Lincoln.
- Higley, L. (2006). *The devil and Leon Higley: An IPM story* (pp. 131-134).
- Hunt, T., Jarvi, K., Higley, L. (2002). *Soybean Entomology in Nebraska* (pp. 53-60). University of Nebraska Cooperative Extension.
- Hunt, T., Higley, L., Jarvi, K. (2001). *Soybean decision making for defoliating insects* (pp. 54-58). University of Nebraska Cooperative Extension.
- Hoback, W., Higley, L. (2000). *Insect predation, prey defense, and community structure* (vol. 21, pp. 293-304).
- Hunt, T., Higley, L., Witkowski, J. (1998). *Understanding and using economic thresholds* (pp. 36-43). University of Nebraska Cooperative Extension.

## Journal Articles

- Brosius, T. R., Higley, L. Behavioral niche partitioning in a sympatric tiger beetle assemblage and implications for the endangered Salt Creek tiger beetle. *PeerJ*, 1, e169. <http://dx.doi.org/10.7717/peerj.169>
- Roe, A., Higley, L. Development modeling of *Lucilia sericata* (Diptera: Calliphoridae). *PeerJ*, 3, e803. <http://dx.doi.org/10.7717/peerj.803>
- Morrow, J., Myhra, A., Piombino-Mascalì, D., Lippi, D., Roe, A., Higley, L., Reinhard, K. (2016). Archaeoentomological and archaeoacarological investigations of embalming jar contents from the San Lorenzo Basilica in Florence, Italy. *Journal of Archaeological Science: Reports*, 10, 166-171. <http://dx.doi.org/10.1016/j.jasrep.2016.09.021>
- Higley, L., Brosius, T. R., Reinhard, K., Carter, D. O. (2016). Cleaning Puparia for Forensic Analysis. *Journal of Forensic Sciences*, 61(5), 1356-1358. <http://dx.doi.org/10.1111/1556-4029.13121>
- Fisher, M. L., Higley, L., Foster, J. E. (2015). The Influence of Photoperiod on Development Rates of Three Species of Forensically Important Blow Flies. *Journal of Insect Science*, 15(1), 153. <http://dx.doi.org/10.1093/jisesa/iev133>
- Morrow, J., Baldwin, D. A., Higley, L., Piombino-Mascalì, D., Reinhard, K. (2015). Curatorial implications of *Ophyra capensis* (Order Diptera, Family Muscidae) puparia recovered from the body of the Blessed Antonio Patrizi, Monticiano, Italy (Middle Ages). *Journal of Forensic and Legal Medicine*, 36, 81-83. <http://dx.doi.org/10.1016/j.jflm.2015.09.005>
- Hoback, W., de Freitas, B. A., Martinez, C. A., Higley, L., Fernandes, O. (2015). Photosynthetic responses of potato to Colorado potato beetle injury and differences in injury between adult males and females. *Entomologia Experimentalis et Applicata*, 157(2), 181-187. <http://dx.doi.org/10.1111/eea.12354>
- Torrisi, G. J., Hoback, W., Foster, J. E., Heinrichs, E., Higley, L. (2015). Predation of Introduced Mosquito Larvae by the Midge *Metriocnemus knabi* in the Phytotelma of the Pitcher Plant *Sarracenia purpurea* and Colonization Following Dry Conditions. *Northeastern Naturalist*, 22(3), 513-520. <http://dx.doi.org/10.1656/045.022.0307>
- Brosius, T. R., Higley, L., Johnson, L. (2014). Promoting the Conservation of the Salt Creek Tiger Beetle Using the Visual Arts. *American Entomologist*, 60(1), 39-43. <http://dx.doi.org/10.1093/ae/60.1.39>
- Spicka, A., Johnson, R., Bushing, J., Higley, L., Carter, D. O. (2011). Carcass mass can influence rate of decomposition and release of ninhydrin-reactive nitrogen into gravesoil. *Fors. Sci. International*, 209, 80-85.
- Fujikawa, A., Barksdale, L., Higley, L., Carter, D. O. (2011). Changes in the morphology and presumptive chemistry of impact and pooled bloodstain patterns by *Lucilia sericata* (Meigen) (Diptera: Calliphoridae). *J. Fors. Sci.*, 56, 1315-1318.
- De Jong, G. D., Hoback, W., Higley, L. (2011). Effect of investigator disturbance in experimental forensic entomology: carcass biomass loss and temperature. *J. Forensic Sci.*, 56, 143-149.
- Bastos, C., Whipple, S., Hoback, W., Higley, L. (2011). Grasshopper injury to potato: Consumption, effect on photosynthesis, and economic injury level. *Agron. J.*, 103, 1655-1660.

- Davis, R. S., Peterson li, R., Higley, L. (2011). M-DEC: A spreadsheet program for producing multiple decrement life tables and estimating mortality dynamics for insects. *Computers and Electronics in Agriculture*, 75, 363–367.
- Peterson li, R., Davis, R. S., Higley, L., Fernandes, O. (2011). Reply to “Peterson, R. K. D., R. S. Davis, L. G. Higley, and O. A. Fernandes. 2009. Mortality risk in insects. *Environ. Entomol.* (Forum) 38:2-10.”. *Environ. Entomol.*, 40, 1344.
- De Souza Rossato, J. A., Fernandes, O., Rossini Mutton, M. J., Higley, L., Madaleno, L. L. (2011). Sugarcane response to two biotic stressors: *Diatraea saccharalis* and *Mahanarva fimbriolata*. *International Sugar J.*, 113, 453-455.
- Huntington, T., Higley, L. (2010). Decomposed flesh as a vitellogenic protein source for the forensically-important blow fly *Lucilia sericata* (Diptera: Calliphoridae). *J. Med. Entomol.*, 47, 482-486.
- Peterson li, R., Davis, R. S., Higley, L., Fernandes, O. (2009). Mortality risk in insects (Forum). *Environ. Entomol.*, 38, 2-10.
- Bueno, A., Bueno, R., Nabity, P. D., Higley, L., Fernandes, O. (2009). Photosynthetic response of soybean to twospotted spider mite (Acari: Tetranychidae) injury. *Brazilian Archives Biol. Technol.*, 52, 825-834.
- Gutsche, A. R., Heng-Moss, T., Higley, L., Sarath, G., Mornhinweg, D. W. (2009). Physiological responses of resistant and susceptible barley, *Hordeum vulgare*, to injury by Russian wheat aphid, *Diurpahis noxia* (Mordvilko). *J. Arthropod-Plant Interactions (online)*.
- Higley, L., Huntington, T. (2009). Review of Forensic Entomology. *J. Med. Entomol.*, 46, 1244.
- Delaney, K. J., Haile, F. J., Peterson li, R., Higley, L. (2009). Seasonal patterns of leaf photosynthesis after insect herbivory on common milkweed, *Asclepias syriaca*: reflection of a physiological cost of reproduction, not defense? *Amer. Midland Naturalist*, 162, 224-238.
- Carter, D. O., Filippi, J., Higley, L., Huntington, T., Okoye, M., Criven, M., Bliemeister, J. (2009). Using ninhydrin to reconstruct a disturbed outdoor death scene. *J. Forensic Identification*, 59, 190-195.
- Golick, D., Higley, L., Peterson li, R. (2009). Using the world wide web to educate and inform the public about risk and agricultural biotechnology. *J. Agricultural Food Information*, 10, 102-112.
- Delaney, K. J., Haile, F. J., Peterson li, R., Higley, L. (2008). Impairment of leaf photosynthesis after insect herbivory or mechanical injury on common milkweed, *Asclepias syriaca*. *Environ. Entomol.*, 37, 1332-43.
- Huntington, T., Voigt, D. W., Higley, L. (2008). Not the usual suspects: human wound myiasis by phorids. *J. Med. Entomology*, 45, 157-159.
- Ziems, J. R., Hoback, W., Higley, L., Hunt, T., Fernandes, O., Bastos, C., Bueno, A. (2008). Second generation European corn borer injury and Irish potato physiology, yield, and quality. *Agron. J.*, 100, 720-725.
- Higley, L., Huntington, T., Carter, D. O., Higley, L. (2008). Testing multigenerational colonization of carrion by blow flies in the Great Plains. *Great Plains Res.*, 18, 33-38.

- Bedick, J. C., Ratcliffe, B., Higley, L. (2007). A new sampling protocol for the endangered American burying beetle, *Nicrophorus americanus* Olivier (Coleoptera: Silphidae). *Coleopterists Bull.*, 58, 57-70.
- Nabity, P. D., Higley, L., Heng-Moss, T. (2007). Light-induced variability in the development of the forensically important blow fly, *Phormia regina* (Diptera: Calliphoridae). *J. Med. Entomol.*, 44, 351-358.
- Huntington, T., Higley, L., Baxendale, F. (2007). Maggot development during morgue storage and its effect on estimating the postmortem interval. *J. Forensic Sci.*, 52, 453-458.
- Franzen, L. D., Heng-Moss, T., Higley, L., Sarath, G., Burd, J. D. (2007). Physiology and biochemical responses of resistant and susceptible wheat to Russian wheat aphid. *J. Econ. Entomol.*, 100, 1692-1703.
- Brosius, T. R., Higley, L., Hunt, T. (2007). Population dynamics of soybean aphid and biotic mortality at the edge of its range. *J. Econ. Entomol.*, 100, 1268-1275.
- Delaney, K. J., Higley, L. (2006). An insect countermeasure impacts plant physiology: midrib vein cutting, defoliation, and leaf photosynthesis. *Plant Cell Environ.*, 29, 1245-1257.
- Anderson, W. G., Heng-Moss, T., Baxendale, F., Baird, L., Sarath, G., Higley, L. (2006). Chinch bug (Hemiptera: Blissidae) mouthpart morphology, probing frequencies, and location on resistant and susceptible germplasm. *J. Econ. Entomol.*, 99, 212-221.
- Nabity, P. D., Heng-Moss, T., Higley, L. (2006). Effects of insect herbivory on physiological and biochemical (oxidative enzyme) responses of the halophyte *Atriplex subspicata* (Chenopodiaceae). *Environ. Entomol.*, 35, 1677-1689.
- Nabity, P. D., Higley, L., Heng-Moss, T. (2006). Effects of temperature on development of *Phormia regina* (Diptera: Calliphoridae) and use of development data in determining time intervals in forensic entomology. *J. Med. Entomol.*, 43, 1276-1286.
- Ziems, J. R., Zechmann, B. J., Hoback, W., Wallace, J. C., Madsen, R. A., Hunt, T., Higley, L. (2006). Yield response of indeterminate potato (*Solanum tuberosum*) to simulated insect defoliation. *Agron. J.*, 98, 1435-1444.
- Madsen, R. A., Hunt, T., Higley, L. (2004). Simulated clover leaf weevil injury and alfalfa yield and quality. *Agron. J.*, 96, 224-228.
- Haile, F. J., Higley, L. (2003). Changes in soybean gas-exchange after moisture stress and spider mite injury. *Environ. Entomol.*, 32, 433-440.
- Higley, L. (2003). Economic injury levels and sequential sampling plans for Mexican bean beetle (Coleoptera: Coccinellidae) on dry beans. *J. Econ. Entomol.*, 96, 1160-1167.
- Hunt, T., Higley, L., Haile, F. J. (2003). Imported longhorned weevil (Coleoptera:). *J. Econ. Entomol.*, 96, 1168-1173.
- Hunt, T., Higley, L., Haile, F. J. (2003). Imported longhorned weevil (Coleoptera: Curculionidae) injury to soybean: physiological response and injury guild-level economic injury levels. *J. Econ. Entomol.*, 96, 1168-1173.
- Macedo, T. B., Higley, L., Ni, X., Quisenberry, S. S. (2003). Light activation of Russian wheat aphid-elicited physiological responses in susceptible wheat. *J. Econ. Entomol.*, 96, 194-201.

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- Ni, X., Quisenberry, S. S., Markwell, J., Heng-Moss, T., Higley, L., Baxendale, F., Sarath, G., Klucas, R. (2002). Dynamic change in photosynthetic pigments and chlorophyll degradation elicited by cereal aphid feeding. *Entomologia Experimentalis et Applicata*, 105, 43-53.
- Hoback, W., Clark, T. L., Meinke, L., Higley, L., Scalzitti, J. M. (2002). Immersion survival differs between three *Diabrotica* species. *Entomologia Experimentalis et Applicata*, 105, 29-34.
- Hunt, T., Higley, L., Witkowski, J., Young, L. J., Hellmich, R. L. (2001). Dispersal of adult European corn borer (Lepidoptera: Crambidae) within and proximal to irrigated and non-irrigated corn. *J. Econ. Entomol.*, 96, 1369-1377.
- Ni, X., Quisenberry, S. S., Markwell, J., Heng-Moss, T., Higley, L., Baxendale, F., Sarath, G., Klucas, R. (2001). In vitro enzymatic chlorophyll catabolism in wheat elicited by cereal aphid feeding. *Entomologia Experimentalis et Applicata*, 101, 159-166.
- Barrigossi, J. A.F., Hein, G. L., Higley, L. (2001). Life tables and larval dispersal of Mexican bean beetle (Coleoptera: Coccinellidae) on dry bean in the high plains. *Environ. Entomol.*, 30, 235-243.
- Barrigossi, J. A. F., Young, L. J., Gotway Crawford, C. A., Hein, G. L., Higley, L. (2001). Spatial and probability distribution of Mexican bean beetle (Coleoptera: Coccinellidae) egg mass populations in dry bean. *Environ. Entomol.*, 30, 244-253.
- Hoback, W., Higley, L., Stanley, D. (2001). Tigers eating tigers: evidence of intraguild predation operating in an assemblage of tiger beetles. *Ecol. Entomol.*, 26, 367-375.
- Hunt, T., Higley, L., Pedigo, L. P. (2000). A re-examination of economic injury levels of potato leafhopper (Homoptera: Cicadellidae) on soybean. *J. Entomol. Sci.*, 35, 97-104.
- Hoback, W., Podrabsky, J., Higley, L., Stanley, D., Hand, S. C. (2000). Anoxia tolerance of con-familial tiger beetle larvae is associated with differences in energy flow and anaerobiasis. *J. Comp. Physiol.*, 170, 307-314.
- Haile, F. J., Kerns, D. L., Richardson, J. M., Higley, L. (2000). Impact of insecticides and surfactant on lettuce physiology and yield. *J. Econ. Entomol.*, 93, 788-794.
- Higley, L. (2000). Influence of western corn rootworm (Coleoptera: Chrysomelidae) larval injury on photosynthetic rate and vegetative growth of different types of maize. *Environ. Entomol.*, 29, 861-867.
- Hunt, T., Hellmich, R. L., Dyer, J. M., Higley, L., Witkowski, J. (2000). Oil-Soluble dyes for marking European corn borer (Lepidoptera: Crambidae). *J. Entomol. Sci.*, 35, 338-341.
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- Haile, F. J., Peterson li, R., Higley, L. (1999). Gas-exchange responses of alfalfa and soybean treated with insecticides. *J. Econ. Entomol.*, 92, 954-959.
- Hunt, T., Haile, F. J., Hoback, W., Higley, L. (1999). Indirect measurement of insect defoliation. *Environ. Entomol.*, 28, 1136-1139.
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- Haile, F. J., Higley, L., Ni, X., Quisenberry, S. (1999). Physiological and growth tolerance in wheat to Russian wheat aphid (Homoptera: Aphididae) injury. *Environ. Entomol.*, 28, 787-794.
- Higley, L., Hoback, W., Svatos, T. M., Spomer, S. M., Higley, L. (1999). Trap color and placement affects estimates of insect family-level abundance and diversity in a Nebraska salt marsh. *Entomologia Exp. Appl.*, 91, 393-402.
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- Haile, F. J., Higley, L., Specht, J., Spomer, S. M. (1998). Soybean leaf morphology and defoliation tolerance. *Agronomy J.*, 90, 353-362.
- Hoback, W., Higley, L., Stanley, D., Barnhart, M. C. (1998). Survival of immersion and anoxia by larval tiger beetles, *Cicindela togata*. *American Midland Naturalist*, 140, 27-33.
- Ayyappath, R., Witkowski, J., Higley, L. (1997). Ovipositional responses of two species of spider mites (Acari: Tetranychidae) to sublethal concentrations of permethrin and methyl parathion on corn. *Environ. Entomol.*, 26, 489-496.

#### **Regular Column in Journal or Newspaper**

- Stanley, D., Higley, L. (2000). I ain't got time to waste on my career. *Am. Entomol.*, 46, 215-216.
- Stanley, D., Higley, L. (2000). What are graduate students preparing to do? *Am. Entomol.*, 46, 73-74.
- Higley, L. (1999). Twenty-four/seven. *Am. Entomol.*, 45, 140-141.
- Stanley, D., Higley, L. (1998). Language, images, and ethics. *Am. Entomol.*, 44, 14-15.
- Stanley, D., Higley, L. (1997). Lies, damn lies, and grant proposals. *Am. Entomol.*, 43, 7-10.
- Higley, L., Stanley, D. (1997). Preparing for an uncertain future: Wizards, mystics, and graduate education. *Am. Entomol.*, 43, 79-80.

Stanley, D., Higley, L. (1997). Putting a (large) price tag on scientific misconduct. *Am. Entomol.*, 43, 136-137.

Higley, L., Stanley, D. (1997). The dark landscape of a world with ten ounces to the pound. *Am. Entomol.*, 43, 210-211.

## Other

Brosius, T. R., Higley, L. (2013). *Behavioral niche partitioning in a sympatric tiger beetle assemblage and implications for the endangered Salt Creek tiger beetle*. PeerJ. <http://dx.doi.org/10.7717/peerj.169>

Haskell, N., Hall, R. D., Higley, L., Huntington, T., Williams, R. E. (2007). *Rebuttal to forensic entomology: myths busted!* (vol. 4, pp. 58).

Higley, L. (2003). *Review of Tiger Beetles: The Evolution, Ecology, and Diversity of the Cicindelids* (vol. 57, pp. 431-432).

Higley, L. (2001). *Review of Emerging Technologies for Integrated Pest Management: Concepts, Research, and Implementation* (vol. 41, pp. 580a-581a).

Hunt, T., Witkowski, J., Higley, L. (2001). In A. Martin (Ed.), *Soybean insect pests* (pp. 147-161). Nebraska Soybean Board and University of.

Hoback, W., Higley, L. (2000). *Creating a hypothesis-based web page* (vol. 81, pp. 88-89).

Martin, A., Elmore, R., Grisso, R., Hergert, G. W., Higley, L., Holoubek, M., Hunt, T., Kendrick, J., Klocke, N., Shapiro, C., Shelton, D., Smith, R., Witkowski, J., Wysong, D. (1997). *Nebraska Soybean Handbook*. Lincoln, NE: Nebr. Coop. Extn. Serv..

Spomer, S. M., Higley, L., Hoback, W. (1997). *Nebraska's salt marsh tigers* (vol. 97, pp. 1-4).

Hunt, T., Witkowski, J., Higley, L. (1997). In A. Martin (Ed.), *Soybean insect pests* (pp. 125-135). Nebraska Soybean Board and University of.

## Presentations Given

Higley, L., "Insect Development and Forensic Entomology," University of Sao Paulo, Riberao Preto, Brazil. (July 17, 2014).

Higley, L., Annual Meeting of the Entomological Society of America, "116.A growing science? Blow fly thermal development and human death. Symposium: Current Global Trends in Forensic Entomology," Entomological Society of America, Knoxville, TN. (November 13, 2012).

Golick, D. (Presenter & Author), Heng-Moss, T., Higley, L., Arkansas Entomological Society Meeting, "Using Web-based Key Character and Classification Instruction for Teaching Undergraduate Students Insect Identification," Arkansas Entomological Society, Fayetteville, AR. (October 4, 2012).

Higley, L., "115.The uniquely cool ecophysiology of the endangered Salt Creek tiger beetle: A tale of science, politics, and death.," Department of Entomology, University of Florida, Univ. of Florida, Gainesville, FL. (September 13, 2012).

Higley, L., "114.CSI Quincy – murder, maggots, and some inside stories of forensic science.," Institute of Food and Agricultural Sciences, Univ. of Florida, North Florida Research and Education Center. (September 10, 2012).

Golick, D. (Presenter & Author), Heng-Moss, T. (Author Only), Higley, L., North Central Branch ESA, "Using Web-based Key Character and Classification Instruction for Teaching Undergraduate Students Insect Identification," Entomological Society of America, Lincoln, NE. (June 5, 2012).

## **Contracts, Grants and Sponsored Research**

### **Contract**

Golick, D. (Principal Investigator), Singh, V. (Investigator), Higley, L. (Investigator), "Maggot Madness:Forensic Ento Games," Sponsored by Entertainment Software Assoc Fdn, Associations/Foundations.

Higley, L. (Principal Investigator), "Captive Rearing Capacity SCTB," Sponsored by Ne Game & Parks Commission, State Agencies, \$25,961.00. (July 1, 2009 - December 31, 2011).

Higley, L. (Principal Investigator), Carter, D. (Investigator), "Rearing Salt Creek Tiger Beetle," Sponsored by Ne Game & Parks Commission, State Agencies, \$25,500.00. (July 1, 2010 - June 30, 2011).

Higley, L. (Principal Investigator), Spomer, S. (Investigator), "Protocols/Salt Creek Tiger Beetle," Sponsored by Ne Game & Parks Commission, State Agencies, \$22,760.00. (August 1, 2006 - August 31, 2008).

Hunt, T. (Principal Investigator), Kranz, W. (Investigator), Higley, L. (Investigator), "Influence of Irrigation, Planting Date, & Maturity Group on Soybean Aphid Management," Sponsored by Ne Soybean Board, Industry, \$31,815.00. (October 1, 2006 - September 30, 2007).

Hunt, T. (Principal Investigator), Kranz, W. (Investigator), Higley, L. (Investigator), "Influence of Irrigation, Planting Date, & Maturity Group on Soybean Aphid Management," Sponsored by Ne Soybean Board, Industry, \$29,583.00. (October 1, 2005 - September 30, 2006).

Hunt, T. (Principal Investigator), Higley, L. (Investigator), "Incorporating Predation, Parasitism & Temperature-Dependent Soybean Aphid Development into Soybean Aphid Management Recommendations," Sponsored by Ne Soybean Board, Industry, \$29,405.00. (October 1, 2004 - September 30, 2005).

Higley, L. (Principal Investigator), "Biology & Conservation of Salt Creek Tiger Beetle," Sponsored by Ne Game & Parks Commission, State Agencies, \$20,989.00. (June 1, 2004 - June 30, 2005).

Higley, L. (Principal Investigator), "Draft Recovery Plan for Salt Creek Tiger Beetle," Sponsored by Ne Game & Parks Commission, State Agencies, \$15,000.00. (October 15, 2003 - September 30, 2004).

Hoback, W. (Principal Investigator), Higley, L. (Investigator), "Improving Nebraska Integrated Pest Management of Insect Pests 2003," Sponsored by Ne Dept Agriculture-Potato Dev Bd, State Agencies, \$18,000.00. (July 1, 2003 - June 30, 2004).

Higley, L. (Principal Investigator), "Biology & Conservation of Salt Creek Tiger Beetle," Sponsored by Ne Game & Parks Commission, State Agencies, \$29,000.00. (June 10, 2002 - May 31, 2004).

Higley, L. (Principal Investigator), "Basic Biol/Conservation of Salt Creek Tiger Beetle," Sponsored by Dept of Interior-FWS, Federal, \$10,000.00. (September 1, 2001 - November 30, 2003).

Higley, L. (Principal Investigator), "Basic Biol/Conservation of Salt Creek Tiger Beetle," Sponsored by Dept of Interior-FWS, Federal, \$14,000.00. (September 1, 2001 - November 30, 2003).

Higley, L. (Principal Investigator), Spomer, S. (Investigator), "Basic Biol/Conservation of Salt Creek Tiger Beetle," Sponsored by Dept of Interior-FWS, Federal, \$26,000.00. (September 1, 2001 - November 30, 2003).

Hunt, T. (Principal Investigator), Higley, L. (Investigator), "Soybean Aphid Survey & Early Warning Program," Sponsored by Ne Soybean Board, Industry, \$13,535.00. (October 1, 2002 - September 30, 2003).

Higley, L. (Principal Investigator), "Biology & Conservation of Salt Creek Tiger Beetle," Sponsored by Ne Game & Parks Commission, State Agencies, \$28,166.00. (June 10, 2002 - May 30, 2003).

Higley, L. (Principal Investigator), "Light Modulation/Herbivore-Elicited Leaf Chlorosis," Sponsored by Montana State University, Universities, \$50,621.00. (January 1, 2000 - December 31, 2002).

Higley, L. (Principal Investigator), "Expand/Adapt MAIZE-Syst to Spt Midwest Corn Prod," Sponsored by Iowa State University, Universities, \$5,610.00. (May 1, 1995 - September 30, 1999).

Higley, L. (Principal Investigator), "Expand/Adapt MAIZE-Syst to Spt Midwest Corn Prod," Sponsored by Iowa State University, Universities, \$9,400.00. (May 1, 1996 - April 30, 1998).

## **Grant**

Higley, L. (Principal Investigator), "Screwworms Nutritional and Genetic," Sponsored by Dept of Agriculture-ARS, Federal, \$30,000.00. (September 1, 2016 - August 31, 2019).

Wedin, D. (Principal Investigator), Higley, L. (Investigator), "Burying Beetle Occurrence Model," Sponsored by Ne Dept Roads, State Agencies, \$74,148.00. (August 1, 2014 - May 31, 2017).

Wedin, D. (Principal Investigator), Higley, L. (Investigator), "American Burying Beetle Habitat," Sponsored by Ne Dept Roads, State Agencies, \$33,371.00. (March 4, 2015 - March 31, 2017).

Higley, L. (Principal Investigator), "Stability of Burying Beetle Pop.," Sponsored by Oklahoma State University, Universities.

Higley, L. (Principal Investigator), "Blow Fly Devel & Sample Procedures," Sponsored by Dept of Justice-Natl Inst of Justice, Federal, \$483,323.00. (October 1, 2010 - March 31, 2014).

Golick, D. (Principal Investigator), Higley, L. (Co-Principal Investigator), Singh, V. (Co-Principal Investigator), "Maggot Madness: Games," Associations/Foundations, \$48,580.00. (January 1, 2013 - December 31, 2013).

Higley, L. (Principal Investigator), Elowsky, C. (Investigator), Roe, A. (Investigator), "Blow Fly Development," Sponsored by Dept of Justice-Natl Inst of Justice, Federal.

Golick, D. (Principal Investigator), Singh, V. (Investigator), Higley, L. (Investigator), "Maggot Madness: Games," Sponsored by Entertainment Software Assoc Fdn, Associations/Foundations.

Higley, L. (Principal Investigator), "Rearing Salt Creek Tiger Beetle," Sponsored by Dept of Interior-FWS, Federal, \$60,000.00. (July 27, 2008 - July 31, 2011).

Higley, L. (Principal Investigator), Spomer, S. (Investigator), "SCTB Habitat Conservation," Sponsored by Ne Game & Parks Commission, State Agencies, \$138,000.00. (June 1, 2007 - June 30, 2011).

Hunt, T. (Principal Investigator), Heng-Moss, T. (Investigator), Higley, L. (Investigator), "Soybean Aphid Mgmt in No Cen States," Sponsored by Univ of Minnesota, Universities, \$20,532.00. (March 1, 2007 - February 28, 2008).

Hunt, T. (Principal Investigator), Heng-Moss, T. (Investigator), Higley, L. (Investigator), "Soybean Aphid Mgmt in No Cen States," Sponsored by Univ of Minnesota, Universities, \$15,296.00. (March 1, 2006 - August 1, 2007).

Higley, L. (Principal Investigator), Hoback, W. (Investigator), Hunt, T. (Investigator), Golick, D. (Investigator), "Development & Delivery of User Friendly IPM Tools for Use w/PC & PDA," Sponsored by Dept of Agriculture-IPM, Federal, \$28,208.00. (May 15, 2004 - May 14, 2006).

Higley, L. (Principal Investigator), Hunt, T. (Investigator), Golick, D. (Investigator), "Development & Delivery of User Friendly IPM Tools for Use w/PC & PDA," Sponsored by Dept of Agriculture-IPM, Federal, \$34,000.00. (May 15, 2004 - May 14, 2005).

Hunt, T. (Principal Investigator), Higley, L. (Investigator), "Management of Soybean Aphid in North Central States," Sponsored by Univ of Minnesota, Universities, \$19,030.00. (March 1, 2004 - February 28, 2005).

Higley, L. (Principal Investigator), Lee, D. (Investigator), Roeber, R. (Investigator), Siegfried, B. (Investigator), Foster, J. (Investigator), "Dev Informal & Educ Web Site/Crop Biotech & Safety," Sponsored by Coun for Biotechnology Info, Associations/Foundations, \$147,447.00. (October 1, 2002 - December 31, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by FMC Corporation, Industry, \$1,000.00. (September 1, 2002 - June 30, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Monsanto Co, Industry, \$4,000.00. (June 1, 2002 - June 30, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Monsanto Co, Industry, \$5,000.00. (September 1, 2001 - June 30, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Bayer Corporation, Industry, \$1,000.00. (September 1, 2000 - June 30, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by FMC Corporation, Industry, \$1,000.00. (June 6, 2000 - June 30, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Zeneca Ag Products, Industry, \$500.00. (March 20, 2000 - June 30, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Bayer Corporation, Industry, \$1,000.00. (May 1, 1999 - June 30, 2003).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by FMC Corporation, Industry, \$1,000.00. (September 1, 2001 - June 30, 2002).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Syngenta, Industry, \$500.00. (September 1, 2001 - June 30, 2002).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Banco Do Brasil, Other Agencies, \$4,570.00. (September 1, 2000 - June 30, 2002).

Higley, L. (Principal Investigator), Lee, D. (Investigator), Roeber, R. (Investigator), Siegfried, B. (Investigator), Foster, J. (Investigator), "Dev Informal & Educ Web Site/Crop Biotech & Safety," Sponsored by Coun for Biotechnology Info, Associations/Foundations, \$154,272.00. (January 1, 2001 - December 31, 2001).

Higley, L. (Principal Investigator), "Prep Future Faculty in Biological & Life Sciences," Sponsored by Council of Graduate Schools, Associations/Foundations, \$20,000.00. (September 27, 1999 - September 30, 2001).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by FMC Corporation, Industry, \$1,000.00. (June 1, 1999 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Zeneca Ag Products, Industry, \$500.00. (June 1, 1999 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Nature Conservancy, Industry, \$400.00. (May 3, 1999 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Ctr for Great Plains Studies, Other Agencies, \$500.00. (March 26, 1999 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by FMC Corporation, Industry, \$1,000.00. (August 20, 1998 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Nature Conservancy, Industry, \$400.00. (June 5, 1998 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Society Integrat/Comparat Biology, Associations/Foundations, \$500.00. (June 5, 1998 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by FMC Corporation, Industry, \$2,000.00. (October 1, 1997 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Bayer Corporation, Industry, \$2,000.00. (September 1, 1997 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Dow Elanco, Industry, \$2,000.00. (April 22, 1997 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Nature Conservancy, Industry, \$400.00. (March 1, 1997 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Bayer Corporation, Industry, \$1,000.00. (September 1, 1996 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Bayer Corporation, Industry, \$1,000.00. (September 1, 1996 - December 31, 1999).

Higley, L. (Principal Investigator), "Applied Research on Crop Insects," Sponsored by Dow Elanco, Industry, \$1,200.00. (June 1, 1996 - December 31, 1999).

## Other

Carter, D. (Principal Investigator), Higley, L. (Investigator), Drijber, R. (Investigator), "Carcass Decomposition and Mass," Sponsored by NSF, Federal.

Carter, D. (Principal Investigator), Drijber, R. (Investigator), Higley, L. (Investigator), "Carcass Decompos/Resourc Island," Sponsored by NSF, Federal.

Heng-Moss, T. (Principal Investigator), Higley, L. (Investigator), Hunt, T. (Investigator), "Resistant Soybeans for Improved Management of Soybean Aphid," Sponsored by Ne Soybean Board, Industry, \$0.00.

Carter, D. (Principal Investigator), Drijber, R. (Investigator), Higley, L. (Investigator), Powers, T. (Investigator), "Development of Belowground Microbial & Nematode Community Dynamics as a Tool to Estimate Postmortem Interval," Sponsored by Dept of Justice, Federal, \$0.00.

Carter, D. (Principal Investigator), Drijber, R. (Investigator), Higley, L. (Investigator), Powers, T. (Investigator), "Community Assemblages & Succession Associated with Cadaver Decomposition in Terrestrial Ecosystems," Sponsored by NSF, Federal, \$0.00.

Higley, L. (Principal Investigator), "Artificial Defoliation Experiments to Characterize Plant Response to Damage," Sponsored by Ne Dept Agriculture-Potato Dev Bd, State Agencies, \$0.00.

Heng-Moss, T. (Principal Investigator), Higley, L. (Investigator), Brooks, D. (Investigator), Ellis, M. (Investigator), "Students, Insects, and Science Project (SIS)," Sponsored by NSF, Federal, \$0.00.

Hoback, W. (Principal Investigator), Hunt, T. (Investigator), Higley, L. (Investigator), "Potato Research/Impr Ne IPM of Insect Pests 2003," Sponsored by Ne Dept Agriculture-Potato Dev Bd, State Agencies, \$0.00.

Higley, L. (Principal Investigator), Macedo, T. (Investigator), Madhavan, S. (Investigator), Sarath, G. (Investigator), Burd, J. (Investigator), Heng-Moss, T. (Investigator), "Photosynth Reduct from Aphid Injury/Plant Resist," Sponsored by Dept of Agriculture-NRICGP, Federal, \$0.00.

Heng-Moss, T. (Principal Investigator), Higley, L. (Investigator), Brooks, D. (Investigator), Ellis, M. (Investigator), "Students, Insects, and Science Project (SIS)," Sponsored by NSF, Federal, \$0.00.

Stanley, D. (Principal Investigator), Higley, L. (Investigator), Hoback, W. (Investigator), "Anaerobiosis in Tiger Beetle Larvae:Flood Plain," Sponsored by NSF, Federal, \$0.00.

Quisenberry, S. (Principal Investigator), Foster, J. (Investigator), Higley, L. (Investigator), "Assess Bt Transgenic/Native Resist Corn/IPM System," Sponsored by Purdue University-IPM, Universities, \$0.00.

Quisenberry, S. (Principal Investigator), Foster, J. (Investigator), Higley, L. (Investigator),  
"Benefits of Transgenic Maize Insect Resistance," Sponsored by Dept of Agriculture-NAPIAP,  
Federal, \$0.00.

Ni, X. (Principal Investigator), Quisenberry, S. (Investigator), Haile, F. (Investigator), Higley, L.  
(Investigator), "Circadian Rhythms in Herbivore-Plant Interactions," Sponsored by Dept of  
Agriculture-NRICGP, Federal, \$0.00.

## **SERVICE**

### **University Service**

Committee Chair, Forensic Science Curriculum Committee. (August 15, 2012 - December 31,  
2012).

### **Professional Service**

Editor, Associate Editor of Book or Journal, PeerJ. (July 2013 - Present).

Founding member and Secretary, American Board of Forensic Taphnomy. (January 1, 2012 -  
Present).

### **Consulting**

Litigation, Kraft Foods. (July 2015 - Present).

Litigation, HENRY PHILLIP GRUSS, LTD., Chicago, IL. (January 2014 - August 2015).

Expert Witness in Forensic Entomology, various defense and prosecutors, various nationally.  
(January 1, 2013 - December 31, 2013).

Expert Witness in Forensic Entomology, various defense and prosecutors, various nationally.  
(January 1, 2012 - December 31, 2012).