

JOHN LOWELL CAPINERA



EDUCATION:

Ph.D. (entomology) University of Massachusetts, 1976
M.S. (entomology) University of Massachusetts, 1974
B.A. (biology) Southern Connecticut State University, 1970

EXPERIENCE:

2015- present, Emeritus Professor, Department of Entomology and Nematology, University of Florida.
1987-2015, Professor and Chairman, Department of Entomology and Nematology, University of Florida.
1985-1987, Professor and Head, Department of Entomology, Colorado State University.
1981-1985, Associate Professor, Department of Zoology and Entomology, Colorado State University.
1976-1981, Assistant Professor, Department of Zoology and Entomology, Colorado State University.

RESEARCH INTERESTS

Grasshopper biology, ecology, distribution, identification and management
Vegetable insects: ecology and management
Terrestrial molluscs (slugs and snails): identification, ecology, and management

RECOGNITIONS

Florida Entomological Society Distinguished Achievement Award in Extension (1998).
Florida Entomological Society Entomologist of the Year Award (1998).
Gamma Sigma Delta (The Honor Society of Agriculture) Distinguished Leadership Award of Merit (1999).
Elected Fellow of the Entomological Society of America (1999).
Elected president of the Florida Entomological Society (2001-2002; served as vice president and secretary in previous years).

“Handbook of Vegetable Pests,” authored by J.L. Capinera, named an “Outstanding Academic Title for 2001” by Choice Magazine, a reviewer of publications for university and research libraries.

“Award of Recognition” by the Entomological Society of America Formal Vegetable Insect Conference for publication of Handbook of Vegetable Pests (2002)

“Encyclopedia of Entomology” was awarded Best Reference by the New York Public Library (2004), and an Outstanding Academic Title by CHOICE (2003).

“Field Guide to Grasshoppers, Katydid, and Crickets of the United States” co-authored by J.L. Capinera received “Starred Review” book review in 2005 from Library Journal, a reviewer of library materials.

Awarded Lifetime Achievement Award by the Florida Entomological Society (2014).

BOOKS AUTHORED AND EDITED

1. Capinera, J. L. and T. S. Sechrist. 1982. Grasshoppers (Acrididae) of Colorado: Identification, Biology and Management. Colo. Agric. Expt. Sta. Bull. 584S. 161 pp.
2. Capinera, J. L. and D. C. Thompson. 1983. Plant Pests of Colorado: An Annotated Inventory. Part 1: Insects. Colo. Coop. Ext. Serv. Special Ser. 20. 228 pp.
3. Capinera, J. L. (ed.). 1987. Rangeland Integrated Pest Management: A Shortgrass Prairie Perspective. Westview Press, Boulder, CO. 429 pp.
4. Rosen, D., F.D. Bennett, and J.L. Capinera (eds.) 1994. Pest Management in the Subtropics. Biological Control – A Florida Perspective. Intercept, Andover, U.K. 737 pp.
5. Rosen, D., F.D. Bennett, and J.L. Capinera (eds.) 1996. Pest Management in the Subtropics. Integrated Pest Management – A Florida Perspective. Intercept, Andover, U.K. 578 pp.
6. Capinera, J.L., C.W. Scherer, and J. M. Squitier. 2001. Grasshoppers of Florida. University Press of Florida. 143 pp.
7. Capinera, J.L. 2001. Handbook of Vegetable Pests. Academic Press, N.Y. 729 pp.
8. Capinera, J.L. (ed.) 2004. Encyclopedia of Entomology. 3 Vol., Kluwer Academic Press, Dordrecht, The Netherlands. 2400 pp.
9. Capinera, J.L., R. Scott, and T.J. Walker. 2004. Field Guide to Grasshoppers, Katydid and Crickets of the United States and Canada. Cornell University Press, Ithaca. 249 pp.

10. Wilkerson, J.L., S.E. Webb, J.L. Capinera and T.R. Fasulo. 2005. Insect Photo Gallery, Vegetable Pests 1-3 (set of 3 CD-ROMs containing images and biology of Florida vegetable pests). University of Florida, IFAS Cooperative Extension.
11. Capinera, J.L. (ed.) 2008. Encyclopedia of Entomology, 2nd edition. 4 vol., Springer Science + Business Media B.V., Dordrecht, The Netherlands. 4346 pp.
12. Capinera, J.L. 2010. Insects and Wildlife: Arthropods and their Relationships with Wild Vertebrate Animals. Wiley-Blackwell, Oxford, UK. 487 pp.

BOOK CHAPTERS:

1. Capinera, J. L., W. J. Parton, and J. K. Detling. 1983. Application of a grasshopper simulation model to grasshopper pest management on the North American Shortgrass prairie. Pages 335-344 in W. K. Lauenroth, G. V. Skogerboe, and M. Flug, (eds.), Analysis of Ecological Systems: State-of-the-Art in Ecological Modelling. Elsevier, Amsterdam.
2. Brewer, J. W., J. L. Capinera and R. G. Cates. 1984. The defenses of plants against insects. Pages 236-251, in: H. E. Evans (ed.), Insect Biology. Addison Wesley Pub. Co.
3. Capinera, J. L. and H. E. Evans. 1984. The ecological basis of insect pest management. Pages 366-389, in: H. E. Evans (ed.), Insect Biology. Addison Wesley Pub. Co.
4. Capinera, J. L. 1984. The tactics of insect pest management. Pages 390-412, in: H. E. Evans (ed.), Insect Biology. Addison Wesley Pub. Co.
5. Capinera, J. L. 1987. Population ecology of rangeland grasshoppers. Pages 162-182 in J.L. Capinera (ed.), Integrated Pest Management on Rangeland: A Shortgrass Prairie Perspective. Westview Press, Boulder, CO.
6. Capinera, J.L. 2005. Integration of entomology teaching, research, and extension: the past, present, and future at the University of Florida. Pages 47-55 in K.M. Heinz, R.E. Frisbie, and C.E. Bogan. (eds.) Entomology at the Land Grant University. Texas A&M University Press, College Station.
5. Capinera, J. L. 2019. Direct and indirect effects of herbicides on insects. Pages 76–91 in N. E. Korres, N. R. Burgos, and S. O. Duke, Weed Control: Sustainability, Hazards and Risks in Cropping Systems Worldwide. CRC Press, Boca Raton.

JOURNAL PUBLICATIONS:

1. Capinera, J. L. 1974. Damage to asparagus seedlings by *Brachycolus asparagi*. J. Econ. Entomol. 67: 447-448.

2. Capinera, J.L. and J. H. Lilly. 1975. Bionomics and biotic control of the asparagus beetle, *Crioceris asparagi*, in western Massachusetts. *Environ. Entomol.* 4: 93-96.
3. Capinera, J. L. and P. Barbosa. 1975. Transmission of nuclear polyhedrosis virus to gypsy moth larvae by *Calosoma sycophanta*. *Ann. Entomol. Soc. Amer.* 68: 493-494.
4. Capinera, J. L. and J. H. Lilly. 1975. *Tetrastichus asparagi*, parasitoid of the asparagus beetle: some aspects of host-parasitoid interaction. *Ann. Entomol. Soc. Amer.* 68: 595-596.
5. Barbosa, P., J. L. Capinera and E. A. Harrington. 1975. The gypsy moth parasitoid complex in western Massachusetts: a study of parasitoids in areas of high and low host density. *Environ. Entomol.* 4: 842-846.
6. Capinera, J. L. 1976. Asparagus beetle defense behavior: adaptations for survival in dispersing and non-dispersing species. *Ann. Entomol. Soc. Amer.* 69: 269-272.
7. Capinera, J. L., S. P. Kirouac and P. Barbosa. 1976. Phagodeterrence of cadaver components to gypsy moth larvae, *Lymantria dispar*. *J. Invertebr. Path.* 28: 277-279.
8. Capinera, J. L. and P. Barbosa. 1976. Dispersal of first-instar gypsy moth larvae in relation to population quality. *Oecologia* 26: 53-60.
9. Capinera, J. L., P. Barbosa, and H. H. Hagedorn. 1977. Yolk and yolk depletion of gypsy moth eggs: implications for population quality. *Ann. Entomol. Soc. Amer.* 70: 40-42.
10. Capinera, J. L. and P. Barbosa. 1977. Influence of natural diets and larval density on gypsy moth, *Lymantria dispar*, (Lepidoptera: Orgyiidae) egg mass characteristics. *Can. Entomol.* 109: 1313-1318.
11. Barbosa, P. and J. L. Capinera. 1977. The influence of food on developmental characteristics of the gypsy moth, (L.). *Can. J. Zool.* 55: 1424-1429.
12. Capinera, J. L. 1978. Consumption of sugarbeet foliage by the palestriped flea beetle. *J. Econ. Entomol.* 71: 301-303.
13. Capinera, J. L. 1978. Consumption of sugarbeet foliage by the saltmarsh caterpillar. *J. Econ. Entomol.* 71: 661-663.
14. Capinera, J. L. and M. R. Walmsley. 1978. Control of alfalfa insects with methomyl. *Southwestern Entomol.* 3: 137-140.
15. Capinera, J. L. 1978. Variegated cutworm: consumption of sugarbeet foliage and development on sugarbeet. *J. Econ. Entomol.* 71: 978-980.
16. Capinera, J. L. 1978. Studies of host plant preference and suitability exhibited by early-instar range caterpillar larvae. *Environ. Entomol.* 7: 738-740.

17. Capinera, J. L. and M. R. Walmsley. 1978. Visual response of some sugarbeet insects to sticky traps and water pan traps of various colors. *J. Econ. Entomol.* 71: 926-927.
18. Barbosa, P. and J. L. Capinera. 1978. Population quality, dispersal and numerical change in the gypsy moth *Lymantria dispar* (L.). *Oecologia* 36: 203-209.
19. Capinera, J. L. and F. R. Stermitz. 1979. Laboratory evaluation of zanthophylline as a feeding deterrent for range caterpillar, migratory grasshopper, alfalfa weevil, and greenbug. *J. Chem. Ecol.* 5: 767-771.
20. Capinera, J. L. 1979. Parasitism of the palestriped flea beetle by an allantonematid nematode *Howardula* sp.: effect of parasitism on adult longevity and sugarbeet foliage consumption. *Ann. Entomol. Soc. Amer.* 72: 348-349.
21. Capinera, J. L. 1979. Qualitative variation in plants and insects: effect of propagule size on ecological plasticity. *Amer. Nat.* 114: 350-361.
22. Wiener, L. F. and J. L. Capinera. 1979. Greenbug response to an alarm pheromone analog: temperature and humidity effects, disruptive potential, and analog releaser efficacy. *Ann. Entomol. Soc. Amer.* 72: 369-371.
23. Capinera, J. L. and M. R. Kanost. 1979. Susceptibility of the zebra caterpillar to *Autographa californica* nuclear polyhedrosis virus. *J. Econ. Entomol.* 72: 570-572.
24. Capinera, J. L. 1979. Zebra caterpillar (Lepidoptera: Noctuidae): foliage consumption and development of larvae on sugarbeet. *Can. Entomol.* 111: 905-909.
25. Capinera, J. L. 1979. Effect of simulated insect herbivory on sugarbeet yield in Colorado. *J. Kansas Entomol. Soc.* 52: 712-718.
26. Capinera, J. L. 1980. A trail pheromone from silk produced by larvae of the range caterpillar *Hemileuca oliviae* (Lepidoptera: Saturniidae) and observations on aggregation behavior. *J. Chem. Ecol.* 6: 655-664.
27. Capinera, J. L., L. F. Wiener, and P. R. Anamosa. 1980. Behavioral thermoregulation by late-instar range caterpillar larvae, *Hemileuca oliviae* Cockerell (Lepidoptera: Saturniidae). *J. Kansas Entomol. Soc.* 53: 631-638.
28. Capinera, J. L. and W. J. Roltsch. 1980. Response of wheat seedlings to actual and simulated migratory grasshopper defoliation. *J. Econ. Entomol.* 73: 258-261.
29. Capinera, J. L. 1980. Visual responses of some sugarbeet insects to sticky traps of various yellow and orange hues positioned at two heights. *Southwestern Entomol.* 5: 76-79.

30. Capinera, J. L., S. E. Naranjo and M. J. Packard. 1980. Vapor density and water loss from eggs of the range caterpillar, *Hemileuca oliviae*. Environ. Entomol. 10: 97-104.
31. Wiener, L. F. and J. L. Capinera. 1980. Preliminary study of the biology of the white grub *Phyllophaga fimbripes* (LeConte) (Coleoptera: Scarabaeidae). J. Kansas Entomol. Soc. 53: 701-710.
32. Capinera, J. L., A. R. Renaud and S. E. Naranjo. 1981. Alfalfa webworm: foliage consumption and host preference. Southwestern Entomol. 6: 18-22.
33. Capinera, J. L., S. E. Naranjo and A. R. Renaud. 1981. Alfalfa webworm: larval development in response to diet and temperature. Southwestern Entomol. 6: 10-17.
34. Capinera, J. L. and W. J. Roltsch. 1981. The predatory ant *Formica neoclara*: effect on within-field bean aphid distribution, and activity in relation to thermal conditions. J. Kansas Entomol. Soc. 54: 578-586.
35. Black, P. N., C. D. Blair, A. Butcher, J. L. Capinera, and G. M. Happ. 1981. Biochemistry and ultrastructure of iridescent virus type 29. J. Invertebr. Pathol. 38: 12-21.
36. Capinera, J. L. 1981. Some effects of infestation by bean aphid, *Aphis fabae* Scopoli, on carbohydrate and protein levels in sugarbeet plants, and procedures for estimating economic injury levels. Z. Angew. Entomol. 92: 374-384.
37. MacVean, C. M., J. W. Brewer, and J. L. Capinera. 1982. Field tests of the entomogenous nematode *Neoaplectana carpocapsae* for infection of Colorado potato beetle. J. Econ. Entomol. 75: 97-101.
38. Capinera, J. L., S. L. Blue, and G. S. Wheeler. 1982. Survival of earthworms exposed to *Neoaplectana carpocapsae* nematodes. J. Invertebr. Pathol. 39: 419-21.
39. Capinera, J. L. and T. S. Sechrist. 1982. Grasshopper (Acrididae) - host plant associations: response of grasshopper populations to cattle grazing intensity. Can. Entomol. 114: 1055-1062.
40. Rottman, R. J. and J. L. Capinera. 1983. Effects of insect and cattle-induced perturbations on a shortgrass prairie arthropod community. J. Kansas Entomol. Soc. 56: 241-252.
41. Capinera, J. L., A. R. Renaud, and N. E. Roehrig. 1983. Chemical basis for host selection by *Hemileuca oliviae*: role of tannins in preference of C4 grasses. J. Chem. Ecol. 9: 1425-1437.
42. Capinera, J. L., G. W. Wheatley, D. C. Thompson, and J. Jenkins. 1983. Computer assisted crop loss assessment: a microcomputer model for estimation of sugarbeet insect effects to facilitate decision making in pest management. Prot. Ecol. 5: 319-326.

43. Hollingsworth, C. S. and J. L. Capinera. 1983. Comparison of nymphal development times in diapausing and nondiapausing strains of *Melanoplus sanguinipes* (F.) (Orthoptera: Acrididae). J. Kansas Entomol. Soc. 56: 612-616.
44. Al-Zubaidi, F. S. and J. L. Capinera. 1983. Application of different nitrogen levels to the host plant and cannibalistic behavior of beet armyworm, *Spodoptera exigua* (Hubner) (Lepidoptera: Noctuidae). Environ. Entomol. 12: 1687-1689.
45. Capinera, J. L., J. K. Detling, and W. J. Parton. 1983. Assessment of range caterpillar (Lepidoptera: Saturniidae) effects with a grassland simulation model. J. Econ. Entomol. 76: 1088-1094.
46. Roehrig, N. E. and J. L. Capinera. 1983. Behavioral and developmental responses of range caterpillar larvae, *Hemileuca oliviae*, to condensed tannin. J. Insect Physiol. 29: 901-906.
47. Capinera, J. L. 1984. Instar number in range caterpillar, *Hemileuca oliviae* Cockerell (Lepidoptera: Saturniidae). J. Kansas Entomol. Soc. 57: 344-347.
48. Capinera, J. L., D. C. Thompson, and C. S. Hollingsworth. 1984. Taxonomic and ecological characteristics of crop pests in Colorado. Environ. Entomol. 13: 202-206.
49. Capinera, J. L., C. S. Hollingsworth, D. C. Thompson, and S. L. Blue. 1984. Ecological correlates of pest species richness on crop plants. Prot. Ecol. 6: 287-297.
50. Al-Zubaidi, F. S., and J. L. Capinera. 1984. Utilization of food and nitrogen by beet armyworm, *Spodoptera exigua* (Hubner) (Lepidoptera: Noctuidae), in relation to food type and dietary nitrogen levels. Environ. Entomol. 13: 1604-1608.
51. Capinera, J. L., T. J. Weissling, and E. E. Schweizer. 1985. Compatibility of intercropping with mechanized agriculture: effects of strip intercropping pinto beans and sweet corn on insect abundance in Colorado. J. Econ. Entomol. 78: 354-357.
52. Brewer, J. W., J. L. Capinera, R. E. Deshon and M. L. Walmsley. 1985. Influence of foliar nitrogen levels on survival, development, and reproduction of western spruce budworm, *Choristoneura occidentalis* (Lepidoptera: Tortricidae). Can. Entomol. 117: 23-32.
53. Capinera, J. L. 1985. Determination of host plant preferences of *Hemileuca oliviae* (Lepidoptera: Saturniidae), *Paropomala wyomingensis* (Orthoptera: Acrididae), and *Diapheromera veli* (Orthoptera: Phasmatidae) by choice test and crop analysis. J. Kansas Entomol. Soc. 58: 465-471.
54. Everts, K. L., H. F. Schwartz, N. D. Epsky, and J. L. Capinera. 1985. Effects of maggot and wounding upon the occurrence of *Fusarium* basal rot of onions in Colorado. Plant Disease 69: 878-882.

55. Capinera, J. L., D. R. Gardner, and F. R. Stermitz. 1985. Cantharidin levels in blister beetles (Coleoptera: Meloidae) associated with alfalfa in Colorado. *J. Econ. Entomol.* 78: 1052-1055.
56. Grina, J. A., D. R. Schroeder, E. T. Wydallis, F. R. Stermitz, J. Melman, and J. L. Capinera. 1986. Alkaloids from *Delphinium geyeri*. Three new C20-diterpenoid alkaloids. *J. Org. Chem.* 51: 390-394.
57. Capinera, J. L., W. S. Cranshaw, and H. G. Hughes. 1986. Suppression of raspberry crown borer, *Pennisetia marginata* (Harris) (Lepidoptera: Sesiidae) with soil applications of *Steinernema feltiae* (Rhabditida: Steinernematidae). *J. Invertebr. Pathol.* 48: 257-258.
58. Capinera, J. L., N. D. Epsky, and D. C. Thompson. 1986. Effects of adult western corn rootworm (Coleoptera: Chrysomelidae) ear feeding on irrigated field corn in Colorado. *J. Econ. Entomol.* 79: 1609-1612
59. Gilbertson, R. L., W. M. Brown, Jr., E. G. Ruppel, and J. L. Capinera. 1986. Association of corn stalk rot *Fusarium* spp. and western corn rootworm beetles in Colorado. *Phytopathology* 76: 1309-1314.
60. Al-Zubaidi, F. and J.L. Capinera. 1986. The effects of different types of food on the biology of beet armyworm, *Spodoptera exigua* (Hubn.) (Lepidoptera: Noctuidae). *J. Biol. Sci. Res.* 17: 153-160.
61. Capinera, J. L. 1987. Observations on natural and experimental parasitism of insects by *Mermis nigrescens* Dujardin (Nematoda: Mermithidae). *J. Kansas Entomol. Soc.* 60: 159-162.
62. Walmsley, M. R., J. L. Capinera, J. K. Detling, and M. I. Dyer. 1987. Growth of blue grama and western wheatgrass following grasshopper defoliation and mechanical clipping. *J. Kansas Entomol. Soc.* 60: 51-57.
63. Capinera, J. L., D. R. Horton, N. D. Epsky, and P. L. Chapman. 1987. Effects of plant density and late-season defoliation on yield of field beans. *Environ. Entomol.* 16: 274-280.
64. Thompson, D., J. L. Capinera, and S. D. Pilcher. 1987. Comparison of an aerial water pan pheromone trap to traditional trapping techniques for European corn borer (Lepidoptera: Pyralidae). *Environ. Entomol.* 16: 154-158.
65. Kendall, D. M., and J. L. Capinera. 1987. Leaf value of onions and its relationship to plant phenology, herbivory by onion thrips (Thysanoptera: Thripidae), and mechanical defoliation. *Environ. Entomol.* 16: 859-863.
66. Capinera, J. L., and D. C. Thompson. 1987. Dynamics and structure of grasshopper assemblages on shortgrass prairie. *Can. Entomol.* 119: 567-575.

67. Horton, D. R., and J. L. Capinera. 1987. Seasonal and host plant effects on parasitism of Colorado potato beetle by *Myiopharus doryphorae* (Riley) (Diptera: Tachinidae). *Can. Entomol.* 119: 729-734.
68. Horton, D. R., and J. L. Capinera. 1987. Effects of plant diversity, host density, and host size on population ecology of the Colorado potato beetle (Coleoptera: Chrysomelidae). *Environ. Entomol.* 16: 1019-1026.
69. Capinera, J. L., and B. E. Hibbard. 1987. Bait formulations of chemical and microbial insecticides for suppression of crop-feeding grasshoppers. *J. Agric. Entomol.* 4: 337-344.
70. Horton, D. R., and J. L. Capinera. 1988. Effects of host availability on diapause and voltinism in a non-agricultural population of Colorado potato beetle (Coleoptera: Chrysomelidae). *J. Kans. Entomol. Soc.* 61: 62-67.
71. Horton, D. R., and J. L. Capinera. 1988. Local differences in host use by two populations of the Colorado potato beetle. *Ecology* 69: 823-831.
72. Schwartz, H. F., N. D. Epsky, and J. L. Capinera. 1988. Onion transplant pink root and thrips contamination, and their control in Colorado. *Appl. Agric. Res.* 3: 71-74.
73. Epsky, N. D., D. E. Walter, and J. L. Capinera. 1988. Potential role of nematophagous microarthropods as biotic mortality factors of entomogenous nematodes (Rhabditida: Steinernematidae, Heterorhabditidae). *J. Econ. Entomol.* 81: 821-825.
74. Capinera, J. L., D. Pelissier, G. S. Menout, and N. D. Epsky. 1988. Control of black cutworm, *Agrotis ipsilon* (Lepidoptera: Noctuidae), with entomogenous nematodes (Nematoda: Steinernematidae, Heterorhabditidae). *J. Invertebr. Pathol.* 52: 427-435.
75. Epsky, N.D., and J. L. Capinera. 1988. Efficacy of the entomogenous nematode *Steinernema feltiae* against a subterranean termite, *Reticulitermes tibialis* (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 81: 1313-1317.
76. Capinera, J.L., and D.H. Horton. 1989. Geographic variation in effects of weather on grasshopper infestation. *Environ. Entomol.* 18: 8-14.
77. Kendall, D. M., and J. L. Capinera. 1990. Geographic and temporal variation in the sex ratio of onion thrips. *Southwestern Entomol.* 15: 80-88.
78. Przybyszewski, J., and J. L. Capinera. 1990. Spatial and temporal patterns of grasshopper (Orthoptera: Acrididae) phenology and abundance on a shortgrass prairie. *J. Kans. Entomol. Soc.* 63: 405-413.
79. Horton, D. R., and J. L. Capinera. 1990. Host utilization by Colorado potato beetle (Coleoptera: Chrysomelidae) in a potato/weed (*Solanum sarrachoides* Sendt.) system. *Can. Entomol.* 122: 113-121.

80. McVean, C.M. and J.L. Capinera. 1991. Pathogenicity and transmission potential of *Nosema locustae* and *Vairimorpha* n. sp. (Protozoa: Microsporidae) in Mormon crickets (*Anabrus simplex*; Orthoptera: Tettigoniidae): a laboratory evaluation. J. Invertebr. Pathol. 57: 23-36.
81. Horton, D.R., P.L. Chapman, and J.L. Capinera. 1991. Detecting local adaptation in phytophagous insects using repeated measures designs. Environ. Entomol. 20: 410-418.
82. Przybyszewski, J., and J.L. Capinera. 1991. Patterns of parasitism among shortgrass prairie grasshopper (Orthoptera: Acrididae) populations. J. Kansas. Entomol. Soc. 64: 5-17.
83. Capinera, J.L., N.D. Epsky, and L.L. Turick. 1991. Responses of *Melanoplus sanguinipes* and *M. differentialis* (Orthoptera: Acrididae) to fenoxycarb. J. Econ. Entomol. 84: 1163-1168.
84. Valles, S.M., J.L. Capinera, and P.E.A. Teal. 1991. Evaluation of pheromone trap design, height, and efficacy for capture of male *Diaphania nitidalis* (Lepidoptera: Pyralidae) in a field cage. Environ. Entomol. 20: 1274-1278.
85. MacVean, C.M., and J.L. Capinera. 1992. Field evaluation of two microsporidian pathogens, an entomopathogenic nematode, and carbaryl for suppression of the Mormon cricket, *Anabrus simplex* Hald. (Orthoptera: Tettigoniidae). Biol. Control 2: 59-65.
86. Redak, R.A., J.L. Capinera, and C.D. Bonham. 1992. Effects of sagebrush removal and herbivory by Mormon crickets (Orthoptera: Tettigoniidae) on understory plant biomass and cover. Environ. Entomol. 21: 94-102.
87. Peck, S.B., T.J. Walker, and J.L. Capinera. 1992. Distributional review of the Orthoptera of Florida. Fla. Entomol. 75: 329-342.
88. Valles, S.M., and J.L. Capinera. 1992. Periodicity of attraction of adult melonworm, *Diaphania hyalinata*. Fla. Entomol. 75: 390-392.
89. Capinera, J.L., and N.D. Epsky. 1992. Potential for biological control of soil insects in the Caribbean basin using entomopathogenic nematodes. Fla. Entomol. 75: 525-53
90. Capinera, J.L. 1993. Host-plant selection by *Schistocerca americana* (Orthoptera: Acrididae). Environ. Entomol. 22: 127-133.
91. Capinera, J.L. 1993. Differentiation of nymphal instars in *Schistocerca americana* (Orthoptera: Acrididae). Fla. Entomol. 76: 175-179.
92. Epsky, N.D., and J.L. Capinera. 1993. Quantification of invasion of two strains of *Steinernema carpocapsae* (Weiser) into three lepidopteran larvae. J. Nematol. 25: 173-180.

94. Valles, S.M., and J.L. Capinera. 1993. Response of southern armyworm, *Spodoptera eridania* (Lepidoptera: Noctuidae) larvae to selected botanical insecticides and soap. *J. Agric. Entomol.* 10: 145-153.
95. Capinera, J.L. 1993. Insects in art and religion: the American southwest. *Am. Entomol.* 39: 221-229.
93. Epsky, N.D., and J.L. Capinera. 1994. Invasion efficiency as a measure of efficacy in the entomogenous nematode *Steinernema carpocapsae* (Rhabditida: Steinernematidae). *J. Econ. Entomol.* 87: 366-370.
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97. Smith, H.A., J.L. Capinera, J.E. Peña, and B. Linbo-Terhaar. 1994. Parasitism of pickleworm and melonworm (Lepidoptera: Pyralidae) by *Cardiochiles diaphaniae* (Hymenoptera: Braconidae). *Environ. Entomol.* 23: 1283-1293.
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