

CURRICULUM VITA

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Education

B.A. (1976) Hampshire College, Amherst, Massachusetts
M.S. (1979) University of Minnesota (Entomology)
Thesis title - "Contributions to potato pest management in the Red River Valley"
Ph.D. (1981) University of Minnesota (Entomology; minors in Horticulture, Plant Pathology)
Dissertation title - "Integrated control of insect contaminants of processed peas"

Employment

1995-present	Professor and Extension Specialist, Colorado State University
1989-1995	Associate Professor and Extension Specialist, Colorado State University
1983-1989	Assistant Professor and Extension Specialist, Colorado State University
1982-83	Extension Specialist-Entomology, University of Minnesota
1981	Instructor, University of Minnesota
1977-80, 1981	Research Assistant-Teaching Assistant, University of Minnesota
1974-75, 1975-76	Technician, Insect Ecology Lab, University of Massachusetts
1973-75	Student Director, Environmental Studies Program, Hampshire College
1975	Fieldman, Biological Field Service Company, Visalia, California

Current Job Description

Extension/Research/Teaching position with responsibilities in developing applied pest management programs for insect pests of horticultural crops in Colorado including vegetables, shade trees and shrubs, turf, fruit, and greenhouse crops. Shared Extension responsibilities for insect diagnostics, household insects, medical pests, beekeeping and 4-H entomology Extension needs of state. Teaching of undergraduate and graduate classes related to general entomology, horticultural entomology, and diagnostics.

On-campus Teaching and Instructional Experience

Courses currently taught/co-taught at Colorado State University

BSPM 102 *Insects, Science and Society* (Assumed course responsibility in 2002.

Taught fall and spring semesters through 2005; teach fall semesters currently)

BSPM 303B (1-3) *Horticultural Entomology Lab* (1984-present, 3 sections taught Fall Semester)

Online courses (Horticultural Entomology, a series of three 1-credit courses. 2016-present, taught Spring Semester)

BSPM356A *Introduction to Horticultural Entomology*

BSPM356B *Horticultural Entomology-Food Crops*

BSPM356C Horticultural Entomology-Turf and Ornamental Crops

Additional courses with regularly invited lectures at Colorado State University

BSPM302 General and Applied Entomology - (guest lecturer since 2010, two lectures related to pesticides, Fall semester)

BSPM303A Agronomic Entomology Lab (guest lecture for two periods on vegetable insects, alternate Fall semesters)

BSPM 365 Integrated Forest Health Management (guest lecturer since 2003, 6-8 lectures/Fall semester)

BSPM530 Scientific Writing (one lecture on writing for public, Spring semester)

Courses previously taught at Colorado State University

BSPM 510 Insect-Plant Disease Relationships (1984-2004, co-taught with plant pathologist, alternate fall semesters. Course discontinued with retirement of co-instructor.)

Courses taught as Instructor at University of Minnesota (St. Paul Campus, 1981-1983)

Economic Entomology

Insects in Relation to Plant Disease

Teaching Assistant at University of Minnesota

Economic Entomology

Introduction to Entomology

Teaching Associate, Hampshire College

The Bee Dance Language Controversy

Beekeeping

The Living Insect

Honors, Awards, Recognitions

2019 *Distinguished Service Award*. Rocky Mountain Regional Turfgrass Association. December 11, 2019

2019 *Lee Sommers Distinguished Career Award*. College of Agricultural Sciences, Colorado State University. May 2019.

2013 *Distinguished Achievement Award in Horticultural Entomology*. Entomological Society of America. Presented at Annual Meeting, Austin TX

2009 *Recognition Award for Urban Entomology*. Entomological Foundation/SC Johnson. Presented at the Annual Meeting of the Entomological Society of America. Indianapolis, IN.

2007 *Distinguished Alumni Award*, Department of Entomology, University of Minnesota

2006 Featured in "One on One" column of *The American Gardener*, March/April 2006 Edition, reviewing work on garden IPM

2006 Had an insect honorarily named after me, *Perlesta cranshawi*, a stonefly native to Virginia

2006 *Waterpik Excellence in Education Award* (presented at BYU-CSU Football Game)

2006 *Best Teacher*, Colorado State University Alumni Association

2005 *BCE Entomological Project Award, NCB-ESA*. This was given for the book *Garden Insects of North America*.

2005 Garden Writers of America, 2005 Bronze Award/Technical Book Writing

2005 Finalist, 2004 Colorado Book Awards (Educational Non-fiction)

2004 *MVP Award, Colorado Association of Lawn Care Professionals*. For "a dedicated time commitment beyond the call of duty and outstanding effort in the betterment of the professionalism and goals of CALCP"

2002 Featured "Gardening Guru" for August, National Gardening Association (<http://www.nationalgardening.com/bgcnews/Aug02/index.htm>)

2001 Received very favorable review of *Pests of the West* in the Winter 2001 *American Entomologist*.

2001 Received very favorable review of *Insects and Diseases of Woody Plants in the Central Rockies* (*Ann. Entomol. Soc. Am.* 94(6): 959-960.)

2000 Was featured in a full-length article of the front page of Section F of the July 22 *Denver Post*, entitled "A Passion for Pests".

1998 Was featured as one of three of "The New Entomologists" in the June/July issue of *Organic Gardening* magazine.

1999 *Distinguished Achievement Award in Extension, North Central Branch, Entomological Society of America*. This is in recognition for achievements in Extension, particularly emphasizing efforts of regional value.

1999 *Distinguished Achievement Award in Extension, Entomological Society of America*

1996 *Turf Professional of the Year*, Rocky Mountain Regional Turfgrass Association
This award is given annually, during the annual December conference, to recognize an individual who has contributed to the turfgrass industries of the Rocky Mountain States.

1995 *NACTA/Shepardson Meritorious Teaching Award*, College of Agriculture
This award is given annually to a faculty member in the College of Agriculture who has a sustained career of teaching in a manner that has shown innovation and excellence.

1995 Co-authored book *Bagging Big Bugs* was given an Award of Excellence by the Young Entomologist's Society as being one of the "World's Best Books on Minibeasts"

1992 *Person of the Year*, Green Industries of Colorado. This award is given each year in recognition of an individual who has made outstanding contributions to the Green Industries of Colorado and is presented at the Colorado Garden and Home Show.

1990 *F.A. Anderson Award for Distinguished Service*, Colorado Cooperative Extension.
This award is given each year to an Extension Specialist "in recognition of superior service to the people of Colorado through Extension Education"

1989 *Award for Arboriculture Research*, International Society of Arboriculture Award presented at the Annual Conference (St. Charles, IL) "In recognition of research significant to the improvement of the profession and continued dedication to scientifically based tree care."
Award given to one individual a year.

1988 Featured in an article in *Organic Gardening* magazine (September), entitled "An Insect Einstein". This was rather a light-hearted feature article that emphasized some of my work on "alternative" pest controls. **Note:** This article later led to several radio interviews (including Scott Simon of Weekend Edition/National Public Radio), newspaper, and magazine articles. It also was the impetus to my being asked by Fulcrum Publishing to write *Pests of the West*.

1979 *Graduate Student Teaching Award*, North Central Branch, Entomological Society of America

Miscellaneous Assignments Related to Profession

Entomological Society of America Common Names Committee (1999-2001, 2008-2015, 2016-present; chairman 2011, 2014-2015, 2019-2020)

Board of Advisors, Entomological Foundation (2007-2011)

Chairman, NCR-98 (Woody Plants) (1987), Host (1991)/NCR-196 Co-host 2007

Department of Entomology Advisory Committee (1986-87, 1990-91)

Department of Bioagricultural Sciences and Pest Management Executive Committee (1999-2001, 2008-2011)
Board of Directors, Colorado Association of Lawn Care Professionals (1987-1993)
SubCommittee Chairman (Vegetables, Sugarbeets), NAPIAP Benefits Assessment Review of Aldicarb Use in Agriculture (1988-90)
IR-4 advisory committee member, vegetables (1989), ornamentals (1990)
Committee member, Organic Potato Pest Management Strategic Plan, Western Region IPM project for USDA Office of Pest Management Policy (2008)
CSRS Review Panel Member, Washington State University, Department of Entomology (1993)
Contracted to write report on use of biologically derived technologies for managing pests in urban and suburban environments, US Congress Office of Technology Assessment, August 1994

Graduate Students with Completed Program, Primary Advisor/Co-advisor

Students with Dissertation/Thesis Program (Plan A)

- Schreiner, Melissa.** 2019. A Survey of the Arthropod Fauna associated with Hemp (*Cannabis sativa* L.) grown in Eastern Colorado. M.S. Thesis 90 pp.
- Longtine, Zach.** 2018. Evaluation of factors that contribute to the expansion and control of brassica insect pests in northern Colorado. M.S. Thesis. 48 pp.
- Sitz, Rachael.** (co-advisor with Jane Stewart) 2017. Information on emergent insect associated tree diseases including epidemiological studies of drippy blight disease of oak and thousand cankers disease of walnut. Ph.D. Dissertation.
- Ewals-Strain, Brandon.** 2017. Studies on the management of the swallow bug, *Oeciacus vicarius* Horvath (Hemiptera: Cimicidae) and survival off its avian host. M.S. Thesis.
- Sitz, Rachael.** 2013. Management options for the walnut twig beetle, *Pityophthorus juglandis* Blackman, vector of the fungal canker pathogen *Geosmithia morbida*. M.S. Thesis.
- Utley, Curtis** (co-advisor with Ned Tisserat). 2013. The biology of *Geosmithia morbida* and susceptibility of walnut and hickory species to thousand cankers disease. M.S. Thesis.
- Peachey, Emily** (co-advisor with Ned Tisserat). 2012. Studies on the walnut twig beetle (WTB) *Pityophthorus juglandis* in relation to its association with *Geosmithia morbida*, its survival in felled logs, and its sensitivity to temperature extremes. M.S. Thesis.
- McEwen, Crystal.** 2011. Two entomological studies: 1. The potential of methyl jasmonate applications as a pest management method on cruciferous crops; 2. Contributions to the biology of *Disholcaspis quercusmamma* (Walsh) (Hymenoptera: Cynipidae). M.S. Thesis.
- Camper, Matt.** 2007. Individual potato cultivar response to natural infestations of *Bactericera cockerelli* (Sulc) including studies on yield fluctuations produced by differing treatment schedules. M.S. Thesis.
- Colvin, Bennett.** 2007. Developing methods for managing two introduced insects affecting vegetable and garden crops in eastern Colorado: European earwig, *Forficula auricularia* L. (Dermaptera: Auricularidae) and Red Lettuce Aphid, *Nasonovia ribes-nigri* (Mosley) (Hemiptera: Aphididae). M.S. Thesis.
- Owens, Jeff.** 2007. Striped cucumber beetle, *Acalymma vittatum* (F.) (Coleoptera: Chrysomelidae) in Northern Colorado: Trapping and monitoring methods M.S. Thesis.
- Mahaffey, Linda.** 2006. Diversity, seasonal biology and IPM of onion-infesting thrips in Colorado. M.S. Thesis, Colorado State University. 61 pp.
- Walker, Gregory.** 2006. Developing improved baiting systems to manage the pavement ant, *Tetramorium caespitum* (L.) M.S. Thesis, Colorado State University. 75 pp.

- Sever, Andrea.** 2005. Shade tree insect pest management studies: I. Evaluation of non-target effects of pesticides on arthropods; II. Biology of two emergent insect pests of oak. M.S. Thesis, Colorado State University. 57 pp.
- Sally McElwey.** 2004. Investigations into possible causes of overwintering mortality of Colorado honey bees. M.S. Thesis, Colorado State University.
- Demirel, Nihat.** 2003. Integrated Pest Management Studies of the insects affecting oilseed Brassicas in Colorado. Ph.D. Dissertation, Colorado State University. 266 pp.
- Mannix, Loretta.** 2001. Evaluation of green lacewing (Neuroptera: Chrysopidae) for control of woody plant pests. M.S. Thesis, Colorado State University. 75 pp.
- Wilson, Karen Kramer.** 2001. Seasonal biology and control of clover mite, *Bryobia praetiosa* Koch, in Colorado turfgrass. M.S. Thesis, Colorado State University. 67 pp.
- Al-Doghairi, Mohammed A.** 2000. Pest management tactics for the western cabbage flea beetle (*Phyllotreta pusilla* Horn) on brassica crops. Ph.D. Dissertation, Colorado State University. 166 pp.
- Al-Jabr, Ahmed.** 1999. Integrated pest management of tomato/potato psyllid, *Paratrioza cockerelli* (Sulc) (Homoptera: Psyllidae) with emphasis on its importance to greenhouse tomatoes. Ph.D. Dissertation, Colorado State University. 93 pp.
- Gerace, Daniel.** 1998. Studies in Integrated Pest Management of some Colorado bedding plants. M.S. Thesis, Colorado State University. 79 pp.
- Bishop, R. Jason.** 1998. Seasonal flight phenology and trapping methodology studies of the dusky sap beetle, *Carpophilus lugubris* Murray (Coleoptera: Nitidulidae), in western Colorado sweet corn, *Zea mays* L. M.S. Thesis, Colorado State University. 74 pp.
- Demirel, Nihat.** 1998. Studies in development of pest management practices for some insects affecting garden plants in Larimer County, Colorado. M.S. Thesis, Colorado State University. 69 pp.
- Casey Daniel Sclar.** 1997. Ph.D. Dissertation, Colorado State University. The spider mites of Colorado: Biology and management on landscape plants. 96 pp.
- Dayna D. Cooper.** 1995. M.S. Thesis. Urban conifer scale pests of Colorado's northeastern Front Range. 101 pp.
- Saleh Aldosari.** 1995. Ph.D. Dissertation. Development of an IPM system for onion thrips (*Thrips tabaci* Lindeman) as a pest of bulb onions. 124 pp.
- Mohammed Al-Doghairi.** 1995. M.S. Thesis. Status on the use of supplemental food sources to increase natural enemy activity against Colorado pests. 112 pp.
- Casey Daniel Sclar.** 1995. M.S. Thesis. A re-evaluation of systemic insecticides for the control of woody plant arthropod pests. 152 pp.
- Thomas B. Eckberg.** 1993. M.S. Thesis. Observations on the biology and management of four landscape pests of the Front Range of Colorado.
- Rick J. Zimmerman.** 1991. Ph.D. Dissertation. Contributions toward an integrated pest management system for the elm leaf beetle, *Xanthogaleruca luteola* (Muller) (Coleoptera: Chrysomelidae).
- Rella L. Abernathy.** 1991. M.S. Thesis. Investigations into the nature of the potato psyllid toxin.
- Blair Shean.** 1989. M.S. Thesis. Evaluation of two hymenopteran parasitoids for integrated control of *Myzus persicae* in greenhouses.
- Robert W. Hammon.** 1989. M.S. Thesis. Suppression of *Myzus persicae* in the San Luis Valley.

Rick J. Zimmerman. 1988. M.S. Thesis. Entomogenous nematodes for use in turf IPM systems.

David J. Liewehr. 1988. M.S. Thesis. Cultural practices of potatoes: Effects on alate aphids and other arthropods.

Students without Thesis Program (Plan B)

Zana Jevremovic (1999)

Present Graduate Students (Primary Advisor)

Rasha AlAkeel (Ph.D.)

Andrew Miller (M.S.)

Advising (other)

Faculty Advisor for CSU students (12) in a Study Abroad semester at Lincoln University, New Zealand (February-June, 2012)

Invited Extension Presentations

Invited Extension Programs are presented to about 30-50 different audiences annually, both in-state and outstate. These are a mixture of groups that typically include commercial vegetable growers, turf and landscape plant care professionals, Master Gardeners, biology teachers, nurseries, various horticultural-related societies, and others with interest in entomology. Since 2017 many invited presentations have involved the subject of insect pest management in hemp.

Listserv Bulletin Boards Established and Maintained

PestTalk - a discussion group focusing on insect, disease and cultural problems in lawns and gardens of Colorado and adjacent states. Started in 1997, there are presently approximately 325 participants.

OrnaEnt (established with Mike Merchant, Texas A&M) - a national discussion group focusing on insect and mite problems affecting ornamental (broad sense) plants. Started in 2000, there are presently approximately 240 participants.

ThousandCankers – a discussion group to exchange information on thousand cankers disease of walnut. Started in 2012, there were 90 participants in the 2nd year. This listserv has been discontinued.

Websites Established and Maintained

Colorado Insect information Website

<http://bspm.agsci.colostate.edu/outreach-button/insect-information/>

Hemp Insect Website

<http://hempinsects.agsci.colostate.edu/>

Books

Books, Privately Printed

Cranshaw, W.S. 1992. *Pests of the West*. Fulcrum Publishing. Golden, CO. 275 pp.

Cranshaw, W.S. and B.C. Kondratieff. 1995. *Bagging Big Bugs*. Fulcrum Publishing. Golden, CO. 324 pp.

Cranshaw, W.S. 1998. *Pests of the West, Revised*. Fulcrum Publishing. Golden, CO. 248 pp.

Cranshaw, W. 2004. *Garden Insects of North America*. Princeton University Press. Princeton,

NJ. 656 pp.

Cranshaw, W.S. and B.C. Kondratieff. 2006. *Guide to Colorado Insects*. Westcliffe Publishing. Englewood, CO. 232 pp.

Cranshaw, W. and R. Redak. 2013. *Bugs Rule! An Introduction to the World of Insects*. Princeton University Press. Princeton, N.J. 480 pp.

Cranshaw, W. and D. Shetlar. 2017. *Garden Insects of North America, 2nd Edition*. Princeton University Press. Princeton, N.J. 704 pp.

Books, Government Printing

Kondratieff, B. and W. Cranshaw. 2007. *Common Insects, Spiders, Ticks, and Scorpions of Fort Sill, Oklahoma*. United States Government Printing Office 653-331. 85 pp.

Colorado State Extension Bulletins

Cranshaw, W., W. Jacobi, D. Leatherman, and N. Tisserat. 2014. *Insects and Diseases of Woody Plants in Colorado*. Colorado State University Extension Bulletin 506A. 322 pp. (This was the fifth revision co-authored since 1986.)

Cranshaw, W.S. and C.R. Ward. 1996. Turfgrass Insects in Colorado and Northern New Mexico. *Colorado State Cooperative Extension Publ. 560A*. 38 pp.

Cranshaw, W.S., S. Armbrust, M. Brewer, and S. Lejeunesse. 1994. Household Insects of the Rocky Mountain States. *Colorado State University Extension Bulletin 557A*. 90 pp.

Publications in Professional/Refereed Journals (2010-present publication)

Cranshaw, W. and M. Camper. 2010. Pest Control Industry: An assessment of current concerns and needs in Colorado and Wyoming. Colorado Agricultural Experiment Station Bulletin TB-10-1 5 pp.

Cranshaw, W. and N. Tisserat. 2010. Thousand Cankers Disease: A Recently Recognized Threat to North American Black Walnut. *Arborist News* 19 (1): 52-56.

Colvin, B. & Cranshaw, W. (2010) Comparison of over-the-counter insecticides for managing the European earwig, *Forficula auricularia* L. (Dermaptera: Forficulidae). *Southwestern Entomologist*, 35, 69–74.

Tisserat, N., Cranshaw, W., Putnam, M. L., Pscheidt, J., Leslie, C. A., Murray, M., Hoffman, J., Barkley, Y., Alexander, K., and Seybold, S. J. 2011. Thousand cankers disease is widespread in black walnut in the western United States. *Plant Health Progress* doi: 10.1094/PHP-2011-0630-01-BR

Cranshaw, W.S., H.J. Larsen, Jr. and R.J. Zimmerman. 2011. Notes on fruit damage by the European paper wasp, *Polistes dominula* (Christ) (Hymenoptera: Vespidae). *Southwestern Entomologist* 36(1): 103-105. doi: <http://dx.doi.org/10.3958/059.036.0110>

Cranshaw, W. 2011. Recently recognized range extensions of the walnut twig beetle, *Pityophthorus juglandis* Blackman (Coleoptera: Curculionidae: Scolytinae), in the western United States. *The Coleopterist's Bulletin* 65(1) 48-49. doi: <http://dx.doi.org/10.1649/0010-065X-65.1.48>

Cranshaw, W. 2011. A Review of Nuisance Invader Household Pests of the United States. *American Entomologist* 57(3): 165-169.

Sever, A., W. Cranshaw and R. Brudenell. 2012. *Agrilus quercicola* (Fisher) (Coleoptera: Buprestidae), the Gambel Oak Borer, as a Pest of *Quercus* spp. *Southwestern Entomologist* 37(2):147- 150. doi: <http://dx.doi.org/10.3958/059.037.0207>

Looney, C., L. M. Humble and W. Cranshaw. 2012. *Orchestes alni* (L.) (Coleoptera: Curculionidae): New Records from Western North America with Notes on Parasitoids. *The*

Coleopterist's Bulletin 66(1):63-66. doi: <http://dx.doi.org/10.1649/072.066.0115>

Utley, C., Nguyen, T., Roubtsova, T., Coggeshall, M., Ford, T. M., Grauke, L. J., Graves, A. D., Leslie, C. A., McKenna, J., Woeste, K., Yagmour, M. A., Cranshaw, W., Seybold, S. J., Bostock, R. M., and Tisserat, N. 2013. Susceptibility of walnut and hickory species to *Geosmithia morbida*. Plant Dis. 97: 601–607. <http://dx.doi.org/10.1094/PDIS-07-12-0636-RE>

Luna, E.K., R.A. Sitz, W.S. Cranshaw, and N.A. Tisserat. 2013. The effect of temperature on survival of *Pityophthorus juglandis* (Coleoptera: Curculionidae). Environ. Entomol. 42(5): 1085–1091. <http://dx.doi.org/10.1603/EN13151>

Luna, E., W. Cranshaw, and N. Tisserat. 2014. Attraction of walnut twig beetle *Pityophthorus juglandis* (Coleoptera: Curculionidae) to the fungus *Geosmithia morbida*. Plant Health Progress 01/2014; DOI: 10.1094/PHP-RS-14-0001

Marcelo M. Zerillo, Jorge Ibarra Caballero, Keith Woeste, Andrew D. Graves, Colleen Hartel, Jay W. Pscheidt, Jadelys Tonos, Kirk Broders, Whitney Cranshaw, Steven J. Seybold, Ned Tisserat. 2014. Population Structure of *Geosmithia morbida*, the Causal Agent of Thousand Cankers Disease of Walnut Trees in the United States. PLoS One Published: November 13, 2014. DOI: 10.1371/journal.pone.0112847

McEwen, C, S. Digweed, J.A. Nicholls and W. Cranshaw. 2014. Description and biology of the sexual generation of *Disholcaspis quercusmamma* (Walsh and Riley) (Hyemoptera: Cynipidae), with notes on associated parasitoids. Proceedings of the Entomological Society of Washington 116(3):294-310. doi: <http://dx.doi.org/10.4289/0013-8797.116.3.294>

Schwartz, H.F., D. H. Gent, S. M. Fichtner, K. Otto, C. O. Boateng, S. Szostek, W. S. Cranshaw, and L. A. Mahaffey. 2014. *Thrips tabaci* (Thysanoptera: Thripidae) and Iris yellow spot virus Associated with Onion Transplants, Onion Volunteers, and Weeds in Colorado. Southwestern Entomologist Vol. 39, Issue 4, pg(s) 691-704 doi: 10.3958/059.039.0401

Sitz, R.A., Luna, E.K., Tisserat, N.A., and W.S. Cranshaw. 2015. An annotated bibliography of thousand cankers disease. Including general reports related to this disease, information on the walnut twig beetle *Pityophthorus juglandis* Coleoptera: Curculionidae (Scolytinae), and the associated fungus *Geosmithia morbida*. CSU AES TB 15-1.

Sitz, R.A., Utley, C., Hall, A., Tisserat, N., and W.S. Cranshaw. 2017. Trapping the walnut twig beetle to determine flight patterns in Colorado. Southwestern Entomologist 42(2): 347-356. <https://doi.org/10.3958/059.042.0204>

Sitz, R.A., Luna, E.K., Tisserat, N.A., Caballero, J.I., Cranshaw, W.S. and J.E. Stewart. 2017. Virulence of genetically distinct *Geosmithia morbida* isolates to black walnut and their response to co-inoculation with *Fusarium solani*. Plant Dis. 101(1):116-120. <https://doi.org/10.1094/PDIS-04-16-0535-RE>

Cranshaw, W. S., S. E. Halbert, C. Favret, K. E. Britt, and G. L. Miller. 2018. *Phorodon cannabis* Passerini (Hemiptera: Aphididae), a newly recognized pest in North America found on industrial hemp. Insecta Mundi 0662: 1-12.

Cranshaw, W.S. and K. Due. 2018. A Survey of the Cluster Flies Found in Buildings in Colorado. Southwestern Entomologist, 43(1):263-265 <https://doi.org/10.3958/059.043.0117>

Sitz, R. A., Zerillo, M. M., Snelling, J. W., Caballero, J. I., Alexander, K., Nash, K., Tisserat, N. A., Cranshaw, W. S., Stewart, J. E. 2018. Drippy Blight, a Disease of Red Oaks in Colorado, U.S., Produced from the Combined Effect of the Scale Insect *Allokermes galliformis* and the Bacterium *Lonsdalea quercina* subsp. *quercina*. *Arboriculture and Urban Forestry*, 44(3), 146--152. (Published: January (1st Quarter/Winter) 2018)

Cranshaw, W., M. Schreiner, K. Britt, T. P. Kuhar, J. McPartland, and J. Grant. 2019.

Developing Insect Pest Management Systems for Hemp in the United States: A Work in Progress. *Journal of Integrated Pest Management*. Volume 10, Issue 1, 2019, 26, <https://doi.org/10.1093/jipm/pmz023> Published 28 August, 2019.

Sitz, R.A., V.M. Aquino, N.A. Tisserat, W.S. Cranshaw, and J.E. Stewart. 2019. Insects Visiting Drippy Blight Diseased Red Oak Trees Are Contaminated with the Pathogenic Bacterium *Lonsdalea quercina*. *Plant Disease* 103:1940-1946. <https://doi.org/10.1094/PDIS-12-18-2248-RE>

Krutil, K.D., A.L. Hall, W.S. Cranshaw, B.C. Kondratieff and R.A. Sitz. 2019. First Description of the Adult Male of the Gall-Like Scale Insect *Allokermes galliformis* (Riley) (Hemiptera: Coccoomorpha: Kermesidae). *Insects* 10(8): 250 <https://doi.org/10.3390/insects10080250>

Cranshaw, W. 2019. Note on Predation of Elm Leaf Beetle by a Noctuid Larva, *Caradrina montana* (Bremer). *Southwestern Entomologist* 44(1): 343-344. <https://doi.org/10.3958/059.044.0140>

Cranshaw, W., P. Forrence, and B. Kondratieff. 2019. Observations on development of *Diogmites angustipennis* Loew (Diptera: Asilidae) in a cultivated field. *J. Kansas Entomol. Soc.* 92(1): 412-414.

O'Brien, C., A. Seshadria, and W. Cranshaw. 2019. Hanf als bedeutende Pollenquelle ffur Bienen in den Westlichen Vereinigten Staaten. (A Note on the Use of Hemp as a Significant Pollen Source for Bees in the Western United States) *Letzebuerger Beien-Zeitung* 3:103-107.

Giladi, Y., L. Hadad, N. Luria, W. Cranshaw, O. Lachman, and A. Dombrovsky. 2019. First Report of Beet Curly Top Virus Infecting *Cannabis sativa* L., in Western Colorado. *Plant Disease* Published Online:11 Nov 2019 <https://doi.org/10.1094/PDIS-08-19-1656-PDN>

Photographs Featured in Publication

A photograph of a trans-genus pairing of *Lygaeus kalmii* and *Oncopeltus fasciatus* was featured “What is This?” photograph in the Winter 2009 issue of *American Entomologist*

A series of photographs documenting the eclosion of the robber fly *Diogmites angustipennis* was published in the Spring 2007 issue of *American Entomologist*

Book Chapters (Post-2000)

Cranshaw, W.S. 2001. Psyllid Yellows. pp. 73-74 *in* *Compendium of Potato Diseases and Pests, Second Edition*. eds. W.R. Stevenson, R. Loria, G.D. Franc, D.P. weingartner. The American Phytopathological Society. St. Paul, MN. 106 pp.

Cranshaw, W.S., W.D. Hutchison and E.B. Radcliffe. 2001. Insect Pests of Pea. pp. 40-47 *in* *Compendium of Pea Diseases and Pests, Second Edition*. eds. J.M. Kraft and F.L. Pflieger. The American Phytopathological Society. St. Paul, MN. 67 pp.

Cranshaw, W.S. 2004. Entries on: Crawler, Frass, Honeydew, Leafroller, Phytotoxemia, Shade Tree Arthropods and Their Management. *in* *Encyclopedia of Entomology*. ed. J.L. Capinera. Kluwer Academic Publishers. Dordrecht, Netherlands. 2580 pp.

Cranshaw, W.S. 2004. Chapter 9. Classes of Pesticides Used in Landscape/Nursery Pest Management pp. 42-44. *in* *IPM (Integrated Pest Management) of Midwest Landscapes*. eds. V. Krischik and J. Davidson. Minnesota Agricultural Experiment Station SB-07465. 316 pp.

Cranshaw, W.S. 2004. Chapter 10. Relative Hazards of Turf and Ornamental Pesticides to Non-target Species. pp. 45-48. *in* *IPM (Integrated Pest Management) of Midwest Landscapes*. eds. V. Krischik and J. Davidson. Minnesota Agricultural Experiment Station SB-07645. 316 pp.

Cranshaw, W., E. Grafius, T-X Liu, B. Nault, and D. Riley. 2005. Chapter 11. Onions *in*

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Videotapes/Slide-Tapes

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- O'Malia, G. and W.S. Cranshaw. 1989. Vegetable Garden Pest Management. Videotape 17:10.
- Cranshaw, W.S. 1989. Butterfly Gardening in Colorado. Slide-tape set.
- Cranshaw, W.S. 1990. Recognizing Natural and Biological Insect Controls. Slide-tape set.
- Cranshaw, W.S. 1990. Vegetable Garden Pest Management. Slide-tape set.
- Cranshaw, W.S. 1993. Landscape Pest Management Video Series. (A 9 tape series of issues regarding pest management of turfgrass and woody plants.) Overall project coordinator and producer of 5 videotapes.

Special Curriculum Development

(1996, with Gayla Horvath, Nancy Zuschlag) Developed a Colorado Reader/Ag in the Classroom *Insects and Spiders Helping Humans*. Distributed to 75,000 elementary students statewide. Assisted with accompanying teachers guide.

Foreign Pest Management Consulting/Reporting

Cranshaw, W. Observations of a potato disorder and recommendations for management, Report to the Fundacion Produce Coahuila, A.C. July 2004.

Editorial/Consulting Positions

Bee Notes (1988-1993)
 Department of Entomology Newsletter (1988-1996)
 CALCP Denver Post garden column (1990-1992)
Sunset Magazine gardening publications
Rocky Mountain Gardener
National Gardening
Organic Gardening

Brooklyn Botanic Garden
Office of Technology Assessment

Miscellaneous

Coordinator/Co-Coordinator of winning entry in Colorado State Homecoming Parade-Novelty Division (1990, 1993, 1998, 1999, 2000, 2001)

Developed Gillette Entomology Club Slide Collection (1987-89); Revised Gillette Entomology Slide Collection (1993-94)

Advisor, Gillette Entomology Club (1998-present)

Contributed 2380 insect images to BugWood/IPM Images, making me the largest single entomology contributor to this nationwide image project (2003-present); arranged for 134 images to be included from the estate of Howard Ensign Evans

Successfully proposed over 10 common names for insects through the Entomological Society of America Common Names committee process

Annually contribute produce from field plots to the Food Bank for Larimer County (1998-present)

Participant in Ag Days (1996, 1998-2006)

Coordinator Insect/Plant Horror Film Series (1998-2002)

Captain, Dung Rollers Bowling Team, CSU Recreational League (2002-2007)

4-H Judge, Colorado State Fair (Entomology projects)

Odyssey of the Mind, Poudre School District (Judge 2004-2006, Problem Captain 2006-present)

2006 Larimer County Fair - Won 4 blue ribbons, one red and one white for vegetables and herbs

2008 Larimer County Fair - Won 8 blue ribbons, 2 red and 3 white for vegetables and herbs