

Charles J. Barden

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Experience **Professor of Forestry and Geyer Research Center Director**, Kansas State University, 2009-present.

Associate Professor and State Extension Forester, Kansas State University, 1998-2009.

Regional Extension Forester, US Forest Service/Penn State, 1994-1998.

Area Extension Forestry Specialist, Oklahoma State University, 1989-1994.

Education Ph.D., December 1989, Pennsylvania State University, School of Forest Resources.

M.S., March 1987, Virginia Tech, School of Forestry and Wildlife.

B.S., May 1984, University of Rhode Island, College of Resource Development.

Professional Leadership Positions

Co-advisor, Zamorano Alumni at KSU	2014 - present
Co-chair Faculty Affairs Committee	2016
Faculty Senator, KSU	2013 - present
Chair- Kansas Chapter, Black Walnut Council	2013 - present
Chairman of the Board of Directors: Kansas Alliance for Wetlands and Streams (KAWS).	2007 - 2011
KAWS Board of Directors member	2001 - present
Chair- Great Plains Society of American Foresters	2005 - 2007
Chair- National Agroforestry Working Group SAF	2013 - 2014
	2003 - 2004
Society of American Foresters (member)	1985 - present
President- Plains and Prairie Forestry Association	2003 - 2004
Chair- HFRR Social Committee	2005 - present

Honors and Awards Friend of Extension Master Gardeners Award 2016

Twenty-five year Cooperative Extension Service tenure award. 2014

“Outstanding Alumni” from the Penn State School of Forest

Resources Alumni Group. 2013

Outstanding Faculty Mentor for K-State Research and Extension. 2010.

Twenty Year Membership Pin- Society of American Foresters. 2010.

Fellow- Society of American Foresters. 2009.

Team Award from K-State Research and Extension, for leadership of the Heartland Water Coordination Initiative. 2009.

Leadership Award from the EPA Region 7 Administrator. In recognition of outstanding leadership through the Heartland Regional Water Quality Initiative. 2007.

Diversity Award from K-State Research and Extension, in recognition of working relationships developed with the Kansas Native American community. 2007.

Outstanding Educational Publication award from the American Society of Agronomy. "Agricultural Nitrogen Management for Water Quality Protection in the Midwest" bulletin. 2007

Supporting Partner Award from the Kansas Alliance for Wetlands and Streams, for K-State Research and Extension. 2007.

Outstanding Educational Website award from the American Society of Agronomy. The Heartland Nutrient and Pesticide Management Website. 2004.

Bronze Poster Award. 2002. Outstanding poster presented at the Third Natural Resources Extension Professionals Conference, Naples, Florida.

Outstanding Service to the Forestry Community of Oklahoma and Dedication to Youth Education in Natural Resources. 1994. OSU Department of Forestry.

Ted Silker Award, Outstanding Young Forester in Oklahoma. 1993. Oklahoma Division - Society of American Foresters.

Outstanding State 4-H Program. 1992. Oklahoma Association of Extension Agricultural Agents.

Honorary Societies Alpha Zeta (Agriculture Honor Society)

Phi Kappa Phi (National Academic Honor Society)
Xi Sigma Pi (Honor Society of Forestry)
Gamma Sigma Delta (Agriculture Honor Society)

Professional Service	Regional Editor- <i>National Woodlands</i> magazine	1996 - 2010
	Manuscript reviewer for the <i>Journal of Forestry</i>	2005 - present
	Manuscript reviewer for <i>Agroforestry Systems</i>	2006 - present
	Manuscript reviewer for <i>Applied Engineering in Agriculture</i>	2009 - present
	Proposal evaluator for the USDA Value-Added Producer Grants program.	2004 - 2008

Extension Publications Career Totals: Factsheets = 12, Bulletins = 10
Research Publications Career Totals: Refereed = 9, Proceedings = 11, Abstracts = 35
Extramural Funding KSU Career Total = \$1.3 million

Refereed Publications

C.J. Barden, C.R. Boyer, B.M. Morales, and L. Fisher. 2017. Promoting red elm (*Ulmus rubra* Muhl.) germination with gibberellic acid. Brief Communication, In press. Journal of Forestry. 4pp.

Peralta, N.R., Y. Assefa, J. Du, **C.J. Barden**, and I.A. Ciampitti. 2016. Mid-Season high resolution Satellite Imagery for Forecasting Site-Specific Corn Yield. Remote Sensing 8(848), 16 pp. <www.mdpi.com/journal/remotesensing>

Geyer, W.A., and **C.J. Barden**. 2009. Growth of young *Populus deltoides* as affected by various weed-control techniques in the central plains of the United States. Russian Academy of Sciences, Arid Ecosystems. 15(1): 49-54.

Geyer, W.A., K.D. Lynch, **C.J. Barden**. 2009. Eastern redcedar seed source test in western Kansas. J. Arboriculture and Urban Forestry. 35(2): 107-110.

M.L. Leffert, G.A. Clark, S.L. Hutchinson, and **C.J. Barden**. 2009. Evaluation of poplar trees irrigated with livestock lagoon water. Transactions of the American Society of Agricultural and Biological Engineers. 51(6): 2051-2060.

Geyer, W.A., **C.J. Barden** and J.E. Preece. 2008. Biomass and wood properties of young silver maple. Wood & Fiber Science. 40 (1): 23-28.

Geyer, W.A., R.L. Atchison, and **C.J. Barden**. 2008. Comparison of weed control methods in *Populus* tree seedling establishment. Trans. Kansas Academy of Science. 111(4): 171-172.

Mankin, K.R., D.M. Ngandu, **C.J. Barden**, S.L. Hutchinson, and W.A. Geyer. 2007. Grass-shrub riparian buffer removal of sediment, P, and N from simulated runoff. *J. American Water Resources Association*. 43 (5):1108-1116.

Geyer, W.A., K.D. Lynch, **C.J. Barden**. 2007. Rocky Mountain Juniper seed source test in western Kansas. *J. Arboriculture and Urban Forestry*. 33 (5):325-329.

Barden, C.J., S.B. Jones, and L.E. Biles. 1996. Extension Forestry Education- Reaching the people who make decisions. *Journal of Forestry* 94 (3):31-35.

Book Chapters

Barden C.J. et al. 2011. Chapter 14 “Cross-cultural Collaboration for Riparian Restoration on Tribal Lands in Kansas” in the book titled *Pathways for Getting to Better Water Quality: The Citizen Effect*, edited by L.W. Morton and S.S. Brown. Springer. pp 171-179.

Extension publications, factsheets and bulletins

Galgamuwa, G.A., **Barden, C.J.**, and W. Upham. 2016. Hot Pepper Cultivar Evaluation Using Extension Master Gardeners. *Midwest Vegetable Trial Report for 2015*. Purdue University. pp 57-64.

Beck, W.J., **C.J. Barden**, D.C. Maradiaga, and J. Neel. 2015. Delaware River Watershed Riparian Forest Assessment. *KSRE Bulletin*. 35 pp.

McBee, P.S., et al. 2015. American Sycamore: Platanaceae *Platanus occidentalis*. Factsheet MF-3229. Kansas State University, Manhattan, KS. 2 pp.

Barden, C.J., G.A. Galgamuwa, and W. Upham. 2015. Collaborating with Extension Master Gardeners to Evaluate Tomato Cultivars. *Midwest Vegetable Trial Report for 2014*. Purdue University. pp 157-163.

Barden, C.J., D.C. Maradiaga, W.J. Beck and J. Neel. 2014. Comparing Riparian Woodlands of Three Northeast Kansas Watersheds. *In Understanding Sedimentation of Lakes in Kansas*. KSRE Special Publication. pp 155-171.

Scott, L. and **C.J. Barden**. 2014. Champion Trees of Kansas. Kansas Forest Service Bulletin. Kansas State University, Manhattan, KS. 9pp.

Barden, C.J. and W.A. Geyer. 2014. Riparian Forests Protect Streambanks During Flooding. *Inside Agroforestry* 22 (1) pp. 8+11.

Boyer, C., **C.J. Barden**, J. Griffin, and W. Upham. 2011. Pruning Shrubs. Factsheet MF-2998. Kansas State University, Manhattan, KS. 2pp.

- Barden, C.J.** et al. Edited by Frannie Miller. 2010. Stump Treatment Manual. KSRE Bulletin S-153. Kansas State University, Manhattan, KS. 16pp.
- Carey, T. et al. 2009. Recommended Vegetable Varieties. Factsheet L-41. Kansas State University, Manhattan, KS. 4pp.
- Devlin, D. et al. 2008. Pesticide Management for Water Quality Protection in the Midwest. Bulletin MF-2822. Kansas State University, Manhattan, KS. 20pp.
- Wortmann, C.S. et al. 2008. Targeting of Watershed Management Practices for Water Quality Protection. Extension Circular RP-195. 23pp.
- Emily Nolting et al. 2008. Watering newly planted and young trees and shrubs. Factsheet MF-2800. Kansas State University, Manhattan, KS. 2pp.
- Emily Nolting et al. 2008. Watering established trees and shrubs. Factsheet MF-2801. Kansas State University, Manhattan, KS. 2pp.
- Wortmann, C.S. et al. 2006. Nitrogen Management for Water Quality in the Midwest. Extension Circular RP-189. 32pp.
- Barden, C.J.** 2006. Native Kansas Forest Trees. 4-H Forestry Project Guide. 4-H 334. 2pp.
- Wortmann, C.S. et al. 2005. Agricultural Phosphorous Management and Water Quality Protection in the Midwest. Extension Circular RP-187. 24pp.
- Barden, C.J.**, C.D. Becker, T. Povilitis. 2004. Birds of Kansas Streamside Forests. Factsheet MF-2648. Kansas State University, Manhattan, KS. 4pp.
- Barden, C.J.** et al. 2003. Assessing the Effectiveness of Various Riparian Buffer Vegetation Types. Keeping Up With Research #137. AES# 03-305.
- Barden, C.J.** 2001. Establishing Riparian Buffers. KSU Forestry Report MF-2489. Kansas State University, Manhattan, KS. 4pp.
- Beem, M., D.J. Turton, **C.J. Barden**, and Steven Anderson. 1998. Application of Poultry Litter to Pine Forests. Oklahoma State University Factsheet #5037. 4pp.
- Barden, C.J.**, et al. 1997. Poultry Litter Application on a Pine Plantation. Oklahoma State University videotape, VT-524. 18 min.
- Wittwer, R.F., **C.J. Barden**, and S. Anderson, 1993. Growing Oak Trees from Seed. OSU Extension Factsheet #5031. 6 pp.

Conference Proceedings Edited

- Conversations on Conservation: Engaging landowners through effective communication. 2016. Proceedings of the Kansas Natural Resources Conference. Wichita, KS. Edited by C.J. Barden and K. Harmony. 25pp.
- Partnerships in Conservation: Bridging the Gap Between science and politics. 2015. Proceedings of the Kansas Natural Resources Conference. Wichita, KS. Edited by C.J. Barden and K. Harmony. 25pp.
- Forty Years of the Endangered Species Act: Living with Endangered Species in Kansas. 2014. Proceedings of the Kansas Natural Resources Conference. Edited by C.J. Barden and K. Harmony. 41pp.
- Under Attack: Invasive Species in Kansas. 2013. Proceedings of the Kansas Natural Resources Conference. Edited by C.J. Barden and K. Harmony. 34pp.
- Wetlands- The Jewels of Kansas. 2012. Proceedings of the Kansas Natural Resources Conference. Edited by C.J. Barden and T. Rhodes. 39pp.
- Through the Haze- The Role of Fire on the Prairie. 2011. Proceedings of the Kansas Natural Resources Conference. Edited by C.J. Barden and H. Blume. 31pp.
- Kansas Waters- Signs of Prosperity and Health. 2010. Proceedings of the Kansas Natural Resources Conference. Edited by C.J. Barden and K. Harmony. 34pp.
- Renewable Energy- Renewable Resources. 2009. Proceedings of the Kansas Natural Resources Conference. Edited by C.J. Barden. 30pp.
- Where Do Trees Belong in Kansas? 2008. Proceedings of the Kansas Natural Resources Conference. Edited by C.P. Paukert and C.J. Barden. 32pp.
- Conference Proceedings**
- Galgamuwa, G.A.P, **C.J. Barden**, J. Hartman and T. Rhodes. 201X. Oak Woodland Prescribed Fire Effects on Fuel Loading and Seedling Regeneration. Society of American Foresters National Convention, Madison, WI. Journal of Forestry (abstract) In press.
- Osorio, R.M. and **C.J. Barden**. 201X. Great Plains Windbreak/Crop Yield Study. Society of American Foresters National Convention, Madison, WI. Journal of Forestry (abstract) In press.
- Osorio, R.M. and C.J. Barden. 2016. Kansas Windbreak/Crop Yield Study. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 23.
- Galgamuwa, G.A.P. et al. 2016. Prescribed Burning in an Oak Woodland and its Effect on Fuel

- Loading. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 11.
- Stiffarm, A.M. and **C.J. Barden**. 2015. Two Cottonwood Sources React Differently to Intensive Establishment Techniques in Phytoremediation Planting. Society of American Foresters National Convention, Salt Lake City, UT. Journal of Forestry (abstract) 113 (1):191.
- Barden, C.J.** and A.M. Stiffarm. 2015. Phytoremediation Case Studies in Manhattan, Kansas. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 10.
- Galgamuwa, G.A.P. et al. 2015. Utilizing Prescribed Burning for Oak Regeneration in Kansas. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 12.
- Stiffarm, A.M. and **C.J. Barden**. 2014. Phytoremediation Case Studies. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 24.
- Barahona, M., **C.J. Barden**, W. Beck, T. Rhodes, and D. Burchfield. 2014. Composition and Structure of Riparian Woodlands of the Tuttle Watershed. Society of American Foresters National Convention, Charleston, SC. Journal of Forestry (abstract) 112 (1):172.
- Barahona, M. et al. 2014. Composition and Structure of Riparian Woodlands of Tuttle Creek Watershed. In Proc. (Abstract) Kansas Natural Resources Conference, Wichita, KS. p. 24.
- Barden, C.J.**, W.J. Beck, D.C. Maradiaga, and J. Neel. 2013. Comparing Riparian Woodlands in Three Northeast Kansas Lake Watersheds. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 17.
- Jensen, W.E. and **C.J. Barden**. 2013. Tips for Seeking Graduate Opportunities in Natural Sciences. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 14.
- Neel, J. et al. 2013. Remote Methods to Identify Riparian-Wetland Areas for Protection and Restoration. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 17.
- Morales, B.M. et al. 2012. Improving Germination of Red Elm (*Ulmus rubra*), Gray Alder (*Alnus incana*) and Buffaloberry (*Shepherdia canadensis*) Seeds with Gibberellic Acid. In Proc. Forest and Conservation Nursery Associations-2011. Haase, D.L. et al. tech. coords. USFS RMRS-P-68. pp 93-95.
- Maradiaga, D.C., **C.J. Barden**, and W.J. Beck. 2012. Comparing Riparian Woodlands in Three Northeast Kansas Lake Watersheds. Society of American Foresters National Convention, Spokane, WA. Journal of Forestry (abstract) 110 (8):560.
- Beck, W.J., **C.J. Barden**, D.C. Maradiaga, and R. Atchison. 2012 Riparian Forestry in Kansas: Proactive, Non-Regulatory Approaches for Water Quality Enhancement. Society of American Foresters National Convention, Spokane, WA. Journal of Forestry (abstract)

11 (8):556.

Barden, C.J., W.J. Beck and J. Neel. 2012. Categorizing Riparian Forest Condition to Target Landowner Incentive and Assistance Programs. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 22.

Morales, B.M., **C.J. Barden**, and C.R. Boyer. 2012. Improving Germination of Red Elm (*Ulmus rubra*) Seeds With Gibberellic Acid. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 21.

Neel, J. et al. 2012. Remote Process for Assessing Proper Functioning Condition (PFC) of Riparian-Wetland Areas. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 21.

Maradiaga, D.C., **C.J. Barden**, and W.J. Beck. 2012. Composition of Riparian Woodlands in Three Northeast Kansas Lake Watersheds. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 21.

Barden, C.J. et al. 2011. Local, Regional and Global Approaches to Moving Agroforestry Forward. Society of American Foresters National Convention, Honolulu, HI. *Journal of Forestry* (abstract). 109 (8):550.

Barden, C.J. 2011. Building Tribal Capacity for Conservation. Society of American Foresters National Convention, Honolulu, HI. *Journal of Forestry* (abstract). 109 (8):550.

Barden, C.J., L. Fisher, B. Chapin, and W. Welton. 2011. Lessons Learned Working on Kansas Indian Reservations. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 18.

Beck, W. et al. 2011. Assessing Riparian Forests in the Delaware River Watershed and Relation to Sedimentation of Perry Lake. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 21.

Ricci, N., **C.J. Barden**, and M. Kennelly. 2011. New Disease Threatening Kansas Walnut Trees. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 22.

Morales, B.M., C.R. Boyer, **C.J. Barden**, and J.J. Griffin. 2010. Improving germination of red elm (*Ulmus rubra*) seeds with gibberellic acid. In Proc. Intl. Plant Prop. Soc. 60:535-537.

Barden, C.J., L. Fisher, B. Chapin, and W. Boyer. 2010. Conducting a GPS-Enabled Rapid Stream Assessment. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 16.

Neel, J. et al. 2010. Riparian Forest Assessment in the Delaware River Watershed. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 31.

- Barden, C.J.**, B. Welton, B. Chapin, and L. Fisher. 2009. Streambank Stabilization and Restoration Practices on the Potawatomi Reservation in Kansas. Presentation and Abstract, In Proc. CSREES National Water Conference, St. Louis, MO. URL <www.usawaterquality.org/conferences/2009/Abstracts/Wshed-oral/Barden09.pdf>
- Barden, C.J.** and W.A. Geyer. 2009. Achieving Home Heating Independence With Wood. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 13.
- Barden, C.J.**, P. Ingle, and C. Blocksome. 2009. Kansas Riparian Working Group. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 23.
- Blocksome, C., A. Miller, and **C.J. Barden.** 2009. Forage Loss Due to Eastern Redcedar Canopy Encroachment. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 24.
- Geyer, W.A. and **C.J. Barden.** 2009. Growth of Young Cottonwood Trees with Various Weed Control Methods. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 26.
- Geyer, W.A., **C.J. Barden,** and R.L. Atchison. 2009. 1993 Flooding Damage Along Two Major Kansas Rivers. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 26.
- Christianson, L., et al. 2009. Effluent Irrigation Treatments for Phytoremediation Plantation Establishment. In Proc. (abstract) The Dahlia Greidinger International Symposium, Haifa, Israel. p. 73.
- Barden, C.J.** 2008. Design and Installation of Cedar Revetments for Streambank Stabilization. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 10
- Barden, C.J.** 2008. Ensuring Woody Riparian Buffer Establishment Success. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 11.
- Barden, C.J.**, S.L. Hutchinson, and L.E. Christianson. 2008. Using Trees for Phytoremediation of Polluted Groundwater. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 20.
- Geyer, W.A., **C.J. Barden,** and R. Atchison. 2008. Benefits of Streambank and Riparian Corridor Renovation and Stabilization. In Proc. (abstract) Kansas Natural Resources Conference, Wichita, KS. p. 12.
- Barden, C.J.** et al. 2007. Runoff filtering effectiveness of grass-shrub riparian buffers. In Proc. (abstract) CSREES Water Quality Conference, Savannah, GA. URL<www.usawaterquality.org/conferences/2007/2007_Abstracts_PDF/>

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- Barden, C.J.** 2005. Bioengineering and Riparian Buffers: Building Tribal Capacity to Improve Water Quality in Kansas. In Proc. (Abstract and PowerPoint) CSREES Water Quality Conference, San Diego, CA.
URL <www.idea.iastate.edu/waterconf/CBarden>
- Barden, C.J.** 2003. Lessons Learned From Collaboration With The Potawatomi Nation. In Proc. Sixth IUFRO Extension Working Party Symposium. Troutdale, OR. 6pp.
- Barden, C.J.** et al. 2003. Reducing Runoff Contaminants with Riparian Buffer Strips. In Proc. North American Agroforestry Conference, Corvallis, OR. pp 7-14.
- Barden, C.J.** and D.W. Carlson. 2003. Using Shelters to Renovate a Riparian Buffer Planting. In Proc. SAF National Convention. Winston-Salem, NC. pp. 363-366.
- Barden, C.J.** et al. 2003. Assessing the Effectiveness of Various Riparian Buffer Vegetation Types. In Proc. SAF National Convention. Winston-Salem, NC. pp. 186-193.
- Geyer, W., **C.J. Barden**, K. Mankin, and D. Devlin. 2002. Riparian Shrub Buffer's Effect on Water Quality. In Proc. SAF National Convention. Denver, CO. pp. 362-363.
- Barden, C.J.** and L. Casey. 1998. Forest landowner assistance programs and international trade. In Proc. SAF National Convention. Memphis, TN. pp.137-141.
- Barden, C.J.** and T.W. Bowersox, 1991. Effects of Radicle Clipping on Subsequent Growth of Northern Red Oak Seedlings in High and Low Moisture Environments. In Proc. Sixth Biennial Southern Silvicultural Research Conference. Memphis, TN. USFS GTR SE-70, Vol.1, pp. 131-137.
- Barden, C.J.** and T.W. Bowersox, 1989. The Effect of Root Pruning Treatments on Red Oak Seedling Root Growth Capacity. In Proc. Seventh Central Hardwood Forest Conference. Carbondale, IL. USFS GTR NC-132, pp. 115-119.
- Barden, C.J.**, P.P. Feret, and R.E. Kreh, 1987. Root Growth Potential and Outplanting Performance of Loblolly Pine Seedlings. In Proc. Fourth Biennial Southern Silvicultural Research Conference, Atlanta, GA. USFS GTR SE-42, pp. 237-244.